

Danielle S. Bassett, Ph.D.

Prepared 11/3/2020

J Peter Skirkanich Professor, University of Pennsylvania
Primary: Department of Bioengineering
Secondary: Departments of Physics & Astronomy, Electrical & Systems Engineering, Neurology, & Psychiatry
210 S. 33rd Street, 240 Skirkanich Hall, Philadelphia, PA 19104-6321
&
External Faculty at the Santa Fe Institute
1399 Hyde Park Rd, Santa Fe, NM 87501
Phone: (805) 452 4245; Email: dsb@seas.upenn.edu; URL: www.danibassett.com

EDUCATION:

The University of Cambridge (UoC), King's College PhD in Physics (awarded July 2009) Advisors: Dr. Thomas Duke (UoC), Dr. Ed Bullmore (UoC), Dr. Andreas Meyer-Lindenberg (NIMH) Funded by the NIH-University of Cambridge Health Science Scholarship	Cambridge, UK Fall '05 – Fall '09
The University of Cambridge (UoC), Churchill College Certificate in Postgraduate Studies in Physics (CPGS) Funded by Winston Churchill Scholarship and the NIH-University of Cambridge Health Science Scholarship	Cambridge, UK Fall '04 – Fall '05
The Pennsylvania State University - Schreyer Honors College Graduated With Distinction Honors B.S. in Physics, Minor in Mathematics Honors in Physical Chemistry of Synthetic Cells	State College, PA Spring '01- May '04
The Reading Hospital School of Nursing Completed 1.5/3 years towards R.N. degree	Reading, PA Fall '99 - Fall '00

ACADEMIC EMPLOYMENT:

Santa Fe Institute External Professor	Santa Fe, NM July '19 – present
The University of Pennsylvania J Peter Skirkanich Professor Full Professor	Philadelphia, PA July '19 – present
The University of Pennsylvania Eduardo D. Glandt Faculty Fellow Associate Professor	Philadelphia, PA March '16 – present
The University of Pennsylvania Skirkanich Assistant Professor of Innovation Tenure-Track Assistant Professor Department of Bioengineering	Philadelphia, PA Sept '13 – March 16
The University of California Santa Barbara Sage Junior Research Fellow	Santa Barbara, CA Fall '11 – Fall '13

Departments of Physics & Psychological and Brain Sciences
Sage Center Director: Michael S. Gazzaniga

The University of California Santa Barbara
Postdoctoral Research Associate
Department of Physics
Institute for Collaborative Biotechnologies
Supervisor: Prof. Jean Carlson

Santa Barbara, CA
Fall '09 – Fall '11

AWARDS AND ACHIEVEMENTS:

ACADEMIC ACHIEVMENT AWARDS:

International Biomedical Research Alliance Distinguished Alumni Award	June, 2020
OHBM Early Career Investigator Award	June, 2020
AIMBE College of Fellows – Class of 2020	Mar, 2020
Eberly College of Science Alumni Society's Outstanding Science Award	Mar, 2020
Web of Science Group Highly Cited Researcher (0.1% of the world's researchers, across 21 research fields, who produced multiple highly-cited papers that rank in the top 1% by citations for field and year in Web of Science)	Nov, 2019
J Peter Skirkanich Professor	Mar, 2019
Erdos Renyi Prize in Network Science	June, 2018
Lagrange Prize, in Complex Systems Theory	Oct, 2017
Popular Science, Brilliant 10	Sept, 2016
Eduardo D. Glandt Faculty Fellow	July, 2016
National Science Foundation CAREER award	Feb, 2016
Distinguished Research Fellow of the Annenberg Public Policy Center	Nov, 2015
Harvard Higher Education Leader	May, 2015
ONR Young Investigator	April, 2015
IEEE EMBS Academic Early Career Achievement Award	April, 2015
MacArthur Fellow	Sept, 2014
Alfred P. Sloan Research Fellow	Jan, 2014
Skirkanich Assistant Professor of Innovation	Sept, 2013
American Psychological Society "Rising Star"	Dec, 2012
Alumni Achievement Award, Schreyer Honors College, PSU Award for extraordinary professional accomplishment under 35 yr. of age	Jan, 2012
Daryl & Marguerite Errett Discovery Award in Biomedical Research	May, 2011
Sage Junior Research Fellow	March, 2011
NIH-University of Cambridge Health Science Scholar	2004
Winston Churchill Scholar, University of Cambridge, UK	2004
Fulbright Scholarship (Declined)	2004
The Paul Axt Prize	2004
Most Achieving Undergraduate Woman of the Year	2004
Society for Distinguished Alumni Scholarship	2004
Academic Achievement Awards: Eberly College of Science	2002–2004
Schreyer Honors Scholar	2002-2004
John and Elizabeth Holmes Teas Scholarship, Department of Physics	2002-2003
Paul Morrow Scholarship, Department of Engineering	2001
Academic Achievement Award in Physics	2002

POSTDOCTORAL TRAVEL AWARDS:

Travel Grant Award SIAM UQ2012	April, 2012
Travel Grant Award OHBM 2010 conference	June, 2010
Travel Grant Award SAMSI Workshop on Complex Networks	Sept, 2010
Travel Grant Award New Horizons 2010 conference	Dec, 2010

PUBLICATIONS:

(h-Index of 68, >25,200 citations; <http://scholar.google.com/citations?hl=en&user=siYpAPsAAAAJ>)

Books or Monographs Under Contract (1)

1. *Curious Minds*, by **Danielle Bassett** and Perry Zurn (Boston: MIT Press, 2018).

In Prep (23)

63. Ari E. Kahn, Karol Szymula, Nathaniel Nyema, Geoffrey A. Aguirre, **Danielle S. Bassett**. Neural representations of motor and visual stimuli during graph learning. In Preparation.

62. Rose Mary Xavier, Monica E. Calkins, **Danielle S. Bassett**, Tyler M. Moore, Wales T. George, Jerome H. Taylor, Raquel E. Gur. Network Analysis of Child-Parent Proband-Collateral Discrepancies in Reported Psychopathology Symptoms. In Preparation.

61. Ann S. Blevins, Jason Z. Kim, **Danielle S. Bassett**. Higher order organization of noise added to complex systems distinguishes true system structure. In Preparation for Communications Physics.

60. Christopher W. Lynn, **Danielle S. Bassett**. Compressibility of complex networks. In Preparation.

59. Abigail Poteshman, Lee C. Bassett, **Danielle S. Bassett**. Network structure and dynamics in quantum transport networks. In preparation.

58. Pragya Srivastava, Fabio S. Pasqualetti, and **Danielle S. Bassett**. The role of layer architecture in determining control properties of multiplex networks. In Preparation.

57. Ursula A. Tooley, **Danielle S. Bassett**, Allyson P. Mackey. Functional Network Community Structure in Development. In Preparation.

56. Arun S. Mahadevan, David M. Lydon-Staley, **Danielle S. Bassett**. Behavior networks. In Preparation.

55. David Lydon-Staley, Emily Falk, Peter Mucha, Kevin Ochsner, **Danielle S. Bassett**. The psychological construct of cognitive control & the physics construct of network control: Current tensions and future promise. In Preparation.

54. Shi Gu, Panagiotis Fotiadis, Cedric Huchuan Xia, Theodore D. Satterthwaite, **Danielle S. Bassett**. Network controllability mediates the relationship between rigid structure and flexible dynamics. In Preparation.

53. Alec Helm, Ann Sizemore Blevins, **Danielle S. Bassett**. Topology of the *C. elegans* growing connectome. In Preparation.

52. Andrew C. Murphy, Theodore D. Satterthwaite, Desmond Oathes, **Danielle S. Bassett**. A structurally informed model for modulating functional connectivity. In Preparation.

51. **Danielle S. Bassett**. The responsible use of publicly shared resources. In Preparation.

50. Sukhvir Wright, Max Wilson, Manoj Upadhya, Divya Dhangar, Richard Rosch, **Danielle S. Bassett**, Charlie Clarke-Bland, Tamara Wahid, Samanta Barman, Norbert Goebels, Jakob Kreye, Harald Pruess, Leslie Jacobson, Angela Vincent, Stuart Greenhill, Gavin Woodhall. In vitro characterisation and neurosteroid treatment of epileptic events in an NMDAR-Ab-mediated seizure model. In Preparation.

49. Mathieu Ouellet, Lee C. Bassett, **Danielle S. Bassett**. The not-symmetry, a simple symmetry of natural boolean networks. In Preparation.

48. Nathaniel Nyema, Ari E. Kahn, **Danielle S. Bassett**. Effects of Reward on the Learnability of Network Structures Underlying Motor Sequences. In Preparation.

47. Arun S. Mahadevan, Eli J. Cornblath, David M. Lydon-Staley, Ari E. Kahn, Ruben C. Gur, Raquel E. Gur, Theodore D. Satterthwaite, Daniel H. Wolf, **Danielle S. Bassett**. Alprazolam modulates persistence energy during emotion processing in first-degree relatives of individuals with schizophrenia: A network control study. In Preparation.

46. Erfan Nozari, Maxwell A. Bertolero, Eli J. Cornblath, Arun S. Mahadevan, Lorenzo Caciagli, Xiaosong He, Jennifer Stiso, George J. Pappas, **Danielle S. Bassett**. Is the brain macroscopically linear? A system identification of resting state dynamics. In Preparation.

Submitted (45)

45. Erin G. Teich & **Danielle S. Bassett**. A growing gender gap in citations. American Physical Society Magazine. Submitted.

44. Janina Wilmskoetter, Xiaosong He, Lorenzo Caciagli, Jens H. Jensen, Barbara Marebwa, Kathryn A. Davis, Julius Fridriksson, Alexandra Basilakos, Lorelei Phillip Johnson, Chris Rorden, **Danielle S. Bassett**, Leonardo Bonilha. Controllability of structural brain networks predicts treated aphasia recovery after stroke. Submitted.

43. Harang Ju, Dale Zhou, Ann S. Blevins, David M. Lydon-Staley, Judith Kaplan, Julio Roberto Tuma, **Danielle S. Bassett**. The network structure of scientific revolutions. Submitted.

42. Erin G. Teich, Matthew Cieslak, Jean M. Vettel, Scott T. Grafton, Theodore D. Satterthwaite, **Danielle S. Bassett**. Crystallinity characterization of white matter in the human brain. Submitted.

41. Michael X. Henderson, Eli J. Cornblath, Howard L. Li, Lakshmi Changolkar, Bin Zhang, Hannah J. Brown, Ronald J. Gathagan, Modupe F. Olufemi, **Danielle S. Bassett**, John Q. Trojanowski, Virginia M.Y. Lee. Tau pathology spreads between anatomically-connected regions of the brain and is modulated by a LRRK2 mutation. Submitted.

40. Maxwell A. Bertolero, Jordan D. Dworkin, Sophia U. David, Claudia Lopez Loreda, Pragya Srivastava, Jennifer Stiso, Dale Zhou, Kaf Dzirasa, Damien A. Fair, Perry Zurn, **Danielle S. Bassett**. Racial and ethnic imbalance in neuroscience reference lists and intersections with gender. Submitted.

39. Linden Parkes, Tyler M. Moore, Monica E. Calkins, Matthew Cieslak, David R. Roalf, Daniel H. Wolf, Ruben C. Gur, Raquel E. Gur, Theodore D. Satterthwaite, & **Danielle S. Bassett**. Network controllability in transmodal cortex predicts psychosis spectrum symptoms. Submitted.

38. William Qian, Lia Papadopoulos, Zhixin Lu, **Danielle S. Bassett**. Path-dependent Dynamics Induced by Rewiring Networks of Inertial Oscillators. Submitted.

37. Xinyi Wang, Jordan D. Dworkin, Dale Zhou, Jennifer Stiso, Emily B. Falk, **Danielle S. Bassett**, Perry Zurn, David M. Lydon-Staley. Gendered Citation Practices in the Field of Communication. Submitted.

36. Matthew Cieslak, Philip A. Cook, Xiaosong He, Fang-Cheng Yeh, Thijs Dhollander, Azeez Adebimpe, Geoffrey K. Aguirre, **Danielle S. Bassett**, Josiane Bourque, Laura Cabral, Christos Davatzikos, John Detre, Eric Earl, Mark A. Elliott, Shreyas Fadnavis, Damien Fair, Will Foran, Panagiotis Fotiadis, Eleftherios Garyfallidis, Barry Giesbrecht, Ruben C. Gur, Raquel E Gur, Max Kelz, Anisha Keshavan, Bart Larsen, Beatriz Luna, Allyson Mackey, Michael Milham, Desmond J. Oathes, Anders Perrone, Adam Pines, David R. Roalf, Adam Richie-Halford, Ariel Rokem, Valerie J. Sydnor, Tinashe M. Tapera, Ursula Tooley, Jean M. Vettel, Jason Yeatman, Scott T. Grafton & Theodore D. Satterthwaite. QSIprep: Robust workflows for preprocessing and reconstructing diffusion MRI. In Preparation.

35. Sophia U. David, Sophie E. Loman, Christopher W. Lynn, Ann S. Blevins, **Danielle S. Bassett**. Networks: What They Tell Us about How We Learn. *Frontiers for Young Kids*. Submitted.
34. Gorman KM, Peters CH, Lynch B, Jones L, **Bassett DS**, King MD, Ruben PC, Rosch RE. Persistent sodium currents in SCN1A developmental and degenerative epileptic dyskinetic encephalopathy. Submitted.
33. Anaïs Llorens, Athina Tzovara, Ludovic Bellier, Ilina Bhaya-Grossman, Aurélie Bidet-Caulet, William K Chang, Zachariah R Cross, Rosa Dominguez-Faus, Adeen Flinker, Yvonne Fonken, Mark Gorenstein, Chris Holdgraf, Colin W Hoy, Maria V Ivanova, Richard T Jimenez, Soyeon Jun, Julia WY Kam, Celeste Kidd, Enitan Marcelle, Deborah Marciano, Stephanie Martin, Nicholas E Myers, Karita Ojala, Pedro Pinheiro-Chagas, Stephanie Ries, Anat Perry, Ignacio Saez, Ivan Skelin, Katarina Slama, Brooke Staveland, **Danielle S Bassett**, Elizabeth A Buffalo, Adrienne L Fairhall, Sabine Kastner, Nancy J Kopell, Jack J Lin, Anna C Nobre, Anne-Kristin Solbakk, Joni D Wallis, Xiao-Jing Wang, Shlomit Yuval-Greenberg, Robert T Knight, Nina F Dronkers. Gender bias in academia: a lifetime problem that needs solutions. Submitted.
32. Qionglng Li, Shahin Tavakol, Jessica Royer, Reinder Vos De Wael, Sara Larivière, Bo-yong Park, Casey Paquola, Debin Zeng, Benoit Caldaïrou, **Danielle S. Bassett**, Andrea Bernasconi, Neda Bernasconi, Birgit Frauscher, Jonathan Smallwood, Lorenzo Caciagli, Shuyu Li, Boris C. Bernhardt. Atypical neural topographies underpin dysfunctional pattern separation in temporal lobe epilepsy. Submitted.
31. Karol Szymula, Fabio Pasqualetti, Ann E. Graybiel, Theresa Desrochers, **Danielle S. Bassett**. Habit learning supported by efficiently controlled network dynamics in naive macaque monkeys. Submitted.
30. Leonardo Torres, Ann Sizemore Blevins, **Danielle S. Bassett**, Tina Eliassi-Rad. The why, how, and when of representations for complex systems. Submitted.
29. Nicolette Driscoll, Richard Rosch, Hajime Takano, Brendan Murphy, Arian Ashourvan, Ramya Vishnubhotla, Olivia Dickens, Douglas Coulter, A.T. Charlie Johnson, Brian Litt, **Danielle S. Bassett**, Flavia Vitale. High resolution in vivo optical and electrophysiological mapping of epileptic networks using transparent graphene electrodes. Submitted.
28. Christopher W. Lynn, Eli J. Cornblath, Lia Papadopoulos, Maxwell A. Bertolero, **Danielle S. Bassett**. Non-equilibrium dynamics and entropy production in the human brain. Submitted.
27. Jason Z. Kim, Zhixin Lu, Erfan Nozari, George J. Pappas, **Danielle S. Bassett**. Teaching Recurrent Neural Networks to Modify Chaotic Memories by Example. Submitted.
26. Arun S. Mahadevan, Ursula Tooley, Maxwell A. Bertolero, Allyson P. Mackey, **Danielle S. Bassett**. Evaluating the sensitivity of functional connectivity measures to motion artifact in resting-state fMRI data. Submitted.
25. John Medaglia, Denise Y. Harvey, Apoorva S. Kelkar, Jared P. Zimmerman, Joely Mass, **Danielle S. Bassett**, Roy H. Hamilton Language Tasks and the Network Control Role of the Left Inferior Frontal Gyrus. Submitted.
24. Nathan Tardiff, John D. Medaglia, **Danielle S. Bassett**, Sharon L. Thompson-Schill. The modulation of brain network integration and arousal during exploration. Submitted.
23. Erin Teich, K. L. Galloway, Paulo Arratia, **Danielle S. Bassett**. Crystalline shielding mitigates structural rearrangement and localizes memory in jammed systems under oscillatory shear. Submitted.

22. Brittany Schneid, Arian Ashourvan, Jennifer Stiso, Kathryn A. Davis, Fadi Mikhail, Fabio Pasqualetti, Brian Litt, **Danielle S. Bassett**. Time-evolving controllability of effective connectivity networks during seizure progression. Submitted.
21. David M. Lydon-Staley, R. R. MacLean, Emily B. Falk, **Danielle S. Bassett**, and Steve. J. Wilson. Segregation of default mode from frontoparietal network protects against smoking lapse. Submitted.
20. Giacomo Baggio, **Danielle S. Bassett**, Fabio Pasqualetti. Data-Driven Control of Complex Networks. Submitted.
19. Maxwell A. Bertolero, Azeez Adebimpe, Ankit N. Khambhati, Marcelo G. Mattar, Daniel R. Romer, Sharson-Thompson-Schill, **Danielle S. Bassett**. Learning differentially reorganizes brain activity and connectivity. Submitted.
18. Maxwell A. Bertolero & **Danielle S. Bassett**. Deep Neural Networks Carve the Brain at its Joints. Submitted.
17. Keith A. Wiley, Peter J. Mucha, **Danielle S. Bassett**. Synchronization of a Network of Kuramoto Oscillators with Resource Constraints. Submitted.
16. Elisabeth A. Karuza, **Danielle S. Bassett**, Mariya Bershad, Sharon L. Thompson-Schill. Temporal proximity or family resemblance: A network-based account of category learning in the context of competing cues. Submitted.
15. Dale Zhou, Christopher W. Lynn, Zaixu Cui, Rastko Ciric, Graham L. Baum, Tyler M. Moore, David R. Roalf, John A. Detre, Ruben C. Gur, Raquel E. Gur, Theodore D. Satterthwaite, **Danielle S. Bassett**. Efficient Coding in the Economics of Connectomics. Submitted.
14. Linden Parkes, Tyler W. Moore, Ruben C. Gur, Raquel E. Gur, Theodore D. Satterthwaite, **Danielle S. Bassett**. Deviations from normative brain development in complex network features track psychopathology. Submitted.
13. Ursula A. Tooley, **Danielle S. Bassett**, and Allyson P. Mackey. Environmental influences on the pace of brain development: Implications for education and health. Submitted.
12. Tiziana Cattai, Stefania Colonnese, Marie-Constance Corsi, **Danielle S. Bassett**, Gaetano Scarano, Fabrizio De Vico Fallani. Phase/amplitude synchronization of brain signals during motor imagery BCI tasks. Submitted.
11. Zhengjun Li, Sudipto Dolui, Mohamad Habes, **Danielle S. Bassett**, David Wolk, and John A. Detre. Disconnectome Associated with Progressive Ischemic Periventricular White Matter Lesions. Submitted.
10. Alexandra Drake, Bruce Dore, Perry Zurn, Emily B. Falk, **Danielle S. Bassett**, David Lydon-Staley. Flourishing and Affective Reactivity and Recovery to Daily Stress in a Daily Diary Study. Submitted.
9. Margaret Schroeder, **Danielle S. Bassett**, David F. Meaney. A multilayer network model of neuron-astrocyte populations in vitro reveals protective effect of mGluR5 inhibition following injury. Submitted.
8. Zöllner, Daniela; Sandini, Corrado; Schaer, Marie; Eliez, Stephan; **Bassett, Danielle**; Van De Ville, Dimitri. Structural control energy of resting-state functional brain states reveals inefficient brain dynamics in psychosis vulnerability. Submitted.
7. Urs Braun, Anais Harneit, Giulio Pergola, Tommaso Menara, Axel Schaefer, Richard F. Betzel, Zhenxiang Zang, Janina I. Schweiger, Kristina Schwarz, Junfang Chen, Giuseppe Blasi, Alessandro Bertolino, Daniel Durstewitz, Fabio Pasqualetti, Emanuel Schwarz, Andreas Meyer-Lindenberg, **Danielle**

S. Bassett, Heike Tost. Brain state stability during working memory is explained by network control theory, modulated by dopamine D1/D2 receptor function, and diminished in schizophrenia. Submitted.

6. Jason Z. Kim, Zhixin Lu, **Danielle S. Bassett**. Design of Large Sequential Conformational Change in Mechanical Networks. Submitted.

5. Arian Ashourvan, Sergio Pequito, Maxwell Bertolero, Jason Z. Kim, **Danielle Bassett**, and Brian Litt. Uncovering large-scale cortical dynamics and its unknown drivers via dynamical systems framework. Submitted.

4. Maxwell Bertolero, Ann E. Sizemore, Graham Baum, Ruben C. Gur, Raquel E. Gur, David R. Roalf, Theodore D. Satterthwaite, **Danielle S. Bassett**. The human brain's network architecture is genetically encoded by modular pleiotropy. Submitted.

3. Raphael T. Gerraty, Madeleine Sharp, Amanda Buch, **Danielle S. Bassett**, Daphna Shohamy. Dopamine modulates learning-related changes in dynamic striatal-cortical connectivity in Parkinson's disease. Submitted.

2. Arian Ashourvan, Preya Shah, Adam Pines, Shi Gu, Christopher W. Lynn, **Danielle S. Bassett**, Kathryn A. Davis, Brian Litt. A pairwise maximum entropy model uncovers the white matter scaffold underlying emergent dynamics in intracranial EEG. Submitted.

1. Richard F. Betzel, Maxwell A. Bertolero, **Danielle S. Bassett**. Non-assortative community structure in resting and task-evoked functional brain networks. Submitted.

Accepted and/or Published: (312)

2020

2020.52 Xiaolong Zhang, Urs Braun, Anais Harneit, Zhenxiang Zang, Lena S. Geiger, Richard F. Betzel, Junfang Chen, Janina Schweiger, Kristina Schwarz, Jonathan Rochus Reinwald, Stefan Fritze, Stephanie Witt, Marcella Rietschel, Markus Nöthen, Franziska Degenhardt, Emanuel Schwarz, Dusan Hirjak, Andreas Meyer-Lindenberg, **Danielle S. Bassett**, Heike Tost. Generative network models identify biological mechanisms of altered structural brain connectivity in schizophrenia. *NeuroImage*. 2020, In Press.

2020.51 Richard M. Shiffrin, **Danielle S Bassett**, Nikolaus Kriegeskorte, Joshua B. Tenenbaum. The Brain Produces Mind by Modeling. 2020, *Proc. Natl. Acad. Sci.* In Press.

2020.50 Linden Parkes, Theodore D. Satterthwaite, **Danielle S. Bassett**. Towards precision medicine in psychiatry using resting-state fMRI: synthesizing developments in transdiagnostic research, dimensional models of psychopathology, and normative neurodevelopment. 2020, *Current Opinion in Neurobiology*. In Press.

2020.49 Harang Ju, Jason Z. Kim, John M. Beggs, **Danielle S. Bassett**. Network structure of cascading neural systems predicts stimulus propagation and recovery. *Journal of Neural Engineering*. Accepted.

2020.48 Aaron F Alexander-Bloch, Armin Raznahan, Russell T Shinohara, Samuel R Mathias, Harini Bathulapalli, Ish P Bhalla, Joseph Goulet, Theodore Satterthwaite, **Danielle S. Bassett**, David C Glahn, Cynthia A. Brandt. Topology of physical and mental health in military veterans. *Proceedings of the Royal Society A*. In Press.

2020.47 Dale Zhou, David M. Lydon-Staley, Perry Zurn, **Danielle S. Bassett**. The growth and form of knowledge networks by kinesthetic curiosity. *Current Opinion in Behavioral Sciences*. In Press.

2020.46 Erica B. Baller, Antonia N. Kaczurkin, Aristeidis Sotiras, Azeez Adebimpe, **Danielle S. Bassett**, Monica E. Calkins, Zaizu Cui, Raquel E. Gur, Ruben C. Gur, Kristin A. Linn, Tyler Moore, Erdem Varol, Daniel H. Wolf, Cedric H. Xia, Christos Davatzikos, Theodore D. Satterthwaite. Neurocognitive and Functional Heterogeneity in Depressed Youth. *Neuropsychopharmacology*. 2020, In Press.

2020.45 David M. Lydon-Staley, Dale Zhou, Ann Sizemore Belvins, Perry Zurn, **Danielle S. Bassett**. Hunters, busybodies, and the knowledge network building associated with curiosity. *Nature Human Behavior*, 2020, Accepted in Principle.

2020.44 David M. Lydon-Staley, Adam M. Leventhal, Megan E. Piper, Robert A. Schnoll, **Danielle S Bassett**. Temporal networks of tobacco withdrawal symptoms during smoking cessation treatment. *Journal of Abnormal Psychology*, 2020, In Press.

2020.43 **Danielle S. Bassett**, Kathleen Cullen, Simon Eickhoff, Martha Farah, Yukiko Goda, Patrick Haggard, Hailan Hu, Yasmin Hurd, Sheena Josselyn, Baljit S. Khakh, Juergen Knoblich, Panayiota Poirazi, Russell Poldrack, Marco Prinz, Pieter Roelfsema, Tara Spire-Jones, Mriganka Sur, and Hiroki Ueda. Reflections on the past decades of neuroscience. *Nature Reviews Neuroscience*. 2020, In Press.

2020.42 David M. Lydon-Staley, Eli J. Cornblath, Ann Sizemore Blevins, **Danielle S. Bassett**. Modeling brain, symptom, and behavior in the winds of change. *Neuropsychopharmacology Reviews*. In Press.

2020.41 Lia Papadopoulos, Christopher W. Lynn, Demian Battaglia, **Danielle S. Bassett**. Relations between large-scale brain connectivity and effects of regional stimulation depend on collective dynamical state. *PLoS Comp Bio*. In Press.

2020.40 Carrisa Cocuzza, Takuya Ito, Douglas Schultz, **Danielle S. Bassett**, and Michael Cole. Flexible coordinator and switcher hubs for adaptive task control. *Journal of neuroscience*, 2020, In Press.
**** 300th paper**

2020.39 Julia K. Brynildsen, Kyla D. Mace, Eli J. Cornblath, Carmen Weidler, **Danielle S. Bassett**, and Julie A. Blendy. Transitions in brain state following opiate exposure are defined by functional network connectivity and predicted by transcriptional coupling. *Proceedings of the National Academy of Sciences*, 2020, In Press.

2020.38 Perry Zurn, **Danielle S. Bassett**, Nicole Rust. The Citation Diversity Statement: A Practice of Transparency, A Way of Life. *Trends in Cognitive Science*, 2020, In Press.

2020.37 Shubhankar P. Patankar, Jason Z. Kim, Fabio Pasqualetti, **Danielle S. Bassett**. Path-dependent connectivity, not modularity, consistently predicts controllability of structural brain networks. *Network Neuroscience*, 2020, Accepted in Principle.

2020.36 Sheila Shanmugan, Wen Cao, Theodore D. Satterthwaite, Mary D. Sammel, Arian Ashourvan, **Danielle S. Bassett**, Kosha Ruparel, Ruben C. Gur, C. Neill Epperson, James Loughhead. Impact of Childhood Adversity on Network Reconfiguration Dynamics During Working Memory. *Psychoneuroendocrinology*. 2020, 119:104710.

2020.35 Yuzhen Qin, Ming Cao, Brian D.O. Anderson, **Danielle S. Bassett**, and Fabio Pasqualetti. Mediated Remote Synchronization: the Number of Mediators Matters. *IEEE Control Systems Letters*, In Press.

2020.34 Steven H. Tompson, Emily B. Falk, Matthew B. O'Donnell, Christopher N. Cascio, Joseph B. Bayer, Jean M. Vettel, **Danielle S. Bassett**. Response Inhibition in Adolescents is Moderated by Brain Connectivity and Social Network Structure. *Social Cognitive and Affective Neuroscience*. Accepted.

- 2020.33** Eli J. Cornblath, John L. Robinson, David J. Irwin, Edward B. Lee, Virginia M-Y Lee, John Q Trojanowski, **Danielle S. Bassett**. Defining and predicting transdiagnostic categories of neurodegenerative disease. *Nature Biomedical Engineering*. In Press.
- 2020.32** Lorenzo Caciagli, Luke A. Allen, Xiaosong He, Karin Trimmel, Sjoerd B. Vos, Maria Centeno, Marian Galovic, Meneka K. Sidhu, Pamela J. Thompson, **Danielle S. Bassett**, Gavin P. Winston, John S. Duncan, Matthias J. Koeppe, Michael R. Sperling. Thalamus and focal to bilateral seizures: a multi-scale cognitive imaging study. 2020, *Neurology*. In Press.
- 2020.31** Sydney M. Shaffer, Benjamin L. Emert, Ann S. Blevins, Rohit Gupte, Eduardo Torre, **Danielle S. Bassett**, Arjun Raj. Memory sequencing reveals heritable single cell gene expression programs associated with distinct cellular behaviors. *Cell*. 2020. In Press.
- 2020.30** Zhixin Lu, **Danielle S. Bassett**. Invertible generalized synchronization: A putative mechanism for implicit learning in neural systems. *Chaos*. 2020 In Press.
- 2020.29** Pragya Srivastava, Erfan Nozari, Jason Z. Kim, Dale Zhou, Harang Ju, Cassiano Becker, George Pappas, Fabio Pasqualetti, **Danielle S. Bassett**. Models of communication and control for brain networks: distinctions, convergence, and future outlook. *Network Neuroscience*. Accepted in principle.
- 2020.28** Nicolas H. Christianson, Ann Sizemore-Blevins, **Danielle S. Bassett**. Architecture and evolution of semantic networks in mathematics texts. *Proceedings of the Royal Society A*. Accepted in Principle.
- 2020. 27** Harang Ju, **Danielle S. Bassett**. Dynamic representations on networks in neural systems. *Nature Neuroscience*. Accepted.
- 2020.26** Jordan Dworkin, Perry Zurn, Danielle S. Bassett. (In)citing action to realize an equitable future. *Neuron*. Accepted.
- 2020.25** Jordan D. Dworkin, Kristin A. Linn, Erin G. Teich, Perry Zurn, Russell T. Shinohara, **Danielle S. Bassett**. The extent and drivers of gender imbalance in neuroscience reference lists. *Nature Neuroscience*. Accepted.
- 2020.24** Jennifer Stiso, Marie-Constance Corsi, Jean M. Vettel, Javier Garcia, Fabrizio De Vico Fallani, Timothy H. Lucas, and **Danielle S. Bassett**. Mesoscale architecture of dynamic functional connectivity during brain-computer interface control reveals important role for sustained attention in learning. *Journal of Neural Engineering*. Accepted and In Press.
- 2020.23** Adam R. Pines, Matthew Cieslak, Graham L. Baum, Phillip A. Cook, Azeez Adebimpe, Diego G. Dávila, Mark Elliott, Robert Jirsaraie, Kristin Murtha, Kayla Piiwaa, Adon F. G. Rosen, Sage Rush, Russel T. Shinohara, **Danielle S. Bassett**, David R. Roalf, & Theodore D. Satterthwaite. Comparative Advantages of Multi-shell Diffusion Models for Studies of Brain Development in Youth. *Developmental Cognitive Neuroscience*. In Press.
- 2020.22** Eli J. Cornblath, Arian Ashourvan, Jason Z. Kim, Richard F. Betzel, Rastko Ciric, Graham L. Baum, Kosha Ruparel, Tyler M. Moore, Ruben C. Gur, Raquel E. Gur, Russell T. Shinohara, David R. Roalf, Theodore D. Satterthwaite, **Danielle S. Bassett**. Temporal sequences of brain activity at rest are constrained by white matter structure and modulated by cognitive demands. *Communications Biology*. In Press.
- 2020.21** Christopher W. Lynn, Lia Papadopoulos, Ari E. Kahn, **Danielle S. Bassett**. Human information processing in complex networks. *Nature Physics*. Accepted.
- 2020.20** Zaixu Cui, Jennifer Stiso, Graham L. Baum, Jason Z. Kim, David R. Roalf, Richard F. Betzel, Shi Gu, Zhixin Lu, Cedric H. Xia, Rastko Ciric, Tyler M. Moore, Russell T. Shinohara, Kosha Ruparel, Raquel E. Gur, Ruben C. Gur, **Danielle S. Bassett**, Theodore D. Satterthwaite. Optimization of Energy State

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4. Titipat Achakulvisut, David Acuna, **Danielle S. Bassett**, Konrad Kording. Unique subfields of neuroscience exhibit more diverse language.

CONFERENCE PRESENTATIONS: (prior to 2013)

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<i>OHBM Workshop on Brain Graphs</i>	Beijing, China	June 12, 2012
<i>Cognitive Neuroscience Meeting</i>	Chicago, IL	April 1, 2012
<i>American Physical Society March Meeting</i>	Boston, MA	Feb 28, 2012
<i>International Congress on Schizophrenia Research</i>	Colorado Springs, CO	April 4, 2011
<i>Society for Neuroscience</i>	San Diego, CA	Nov 15, 2010
<i>SAMSI Workshop on Complex Networks</i>	Res Triangle Park, NC	August 31, 2010
<i>Human Brain Mapping</i>	Barcelona, Spain	June 9, 2010
<i>Human Brain Mapping</i>	San Francisco, CA	June 18, 2009
<i>Society for Neuroscience</i>	San Diego, CA	Nov 4, 2007

<i>Human Brain Mapping</i>	Chicago, IL	June 14, 2007
<i>Coordination Dynamics</i>	Boca Raton, FL	Feb 23, 2007
<i>Society for Neuroscience</i>	Atlanta, GA	Oct 14, 2006
<i>Brain Complexity</i>	Hinxton, UK	Sept 27, 2006
<i>NIH Cambridge/Oxford Colloquium</i>	Oxford, UK	June 22, 2006
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CONFERENCE ABSTRACTS: (Since September 2013)

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2. Laura Wiles, **Danielle S. Bassett**, David Meaney. Autaptic connections shift network excitability and bursting. Society for Neuroscience. November 15, 2014. Washington, DC.
3. Marcelo Mattar, Michael W. Cole, Sharon L. Thompson-Schill, **Danielle S. Bassett**. A dynamic functional cartography of cognitive systems. Society for Neuroscience. November 15, 2014. Washington, DC.
4. Ankit Khambhati, Brian Litt, **Danielle S. Bassett**. Dynamic functional reconfiguration in human epileptic networks. Society for Neuroscience. November 17, 2014. Washington, DC.
5. David Baker, Sarah F. Muldoon, Shi Gu, Ankit Khambhati, Marcelo Mattar, Qawi Telesford, Muzhi Yang, **Danielle S. Bassett**. Characterizing modular structure in neuroimaging data: The network community architecture toolbox. Society for Neuroscience. November 19, 2014. Washington, DC.
6. Sarah Muldoon, Jean M. Vettel, **Danielle S. Bassett**. Using stimulation to reveal structure-function relationships in dynamic brain networks. Society for Neuroscience. November 15, 2014. Washington, DC.
7. Qawi Telesford and **Danielle S. Bassett**. Node dynamics in time-dependent brain networks. Society for Neuroscience. November 15, 2014. Washington, DC.
8. Theodore D. Satterthwaite, S. N. Vandekar, Z. Shehzad, **D. S. Bassett**, C. Craddock, D. H. Wolf, R.T. Shinohara, K. Ruparel, M. A. Elliott, M. E. Calkins, R. C. Gur, M. Millham, R. E. Gur. Connectome-wide association study reveals multifocal patterns of dysconnectivity in youth with psychosis-spectrum symptoms. American College of Neuropsychopharmacology. December 7-11, 2014. Phoenix, Arizona.
9. Theodore D. Satterthwaite, S. N. Vandekar, Z. Shehzad, **D. S. Bassett**, C. Craddock, D. H. Wolf, R.T. Shinohara, K. Ruparel, M. A. Elliott, M. E. Calkins, R. C. Gur, M. Millham, R. E. Gur. Connectome-wide association study reveals multifocal patterns of dysconnectivity in youth with psychosis-spectrum symptoms. Fourth Biennial Conference on Resting State / Brain Connectivity. September 11-13, 2014. Cambridge, Massachusetts.
10. Theodore D. Satterthwaite, Joseph W. Kable, Lillie Vandekar, Natalie Katchmar, Claudia F. Baldassano, **Danielle S. Bassett**, Kosha Ruparel, Mark A. Elliott, Ellen Leibenluft, Ruben C. Gur, Raquel E. Gur, Christos Davatzikos, Yvette I. Sheline, Michael E. Thase, & Daniel H. Wolf. Common and Dissociable Abnormalities of the Valuation System in Unipolar and Bipolar Depression. Society of Biological Psychiatry. May 8-10, 2014. New York, New York.
11. Qiang Chen, **Danielle S. Bassett**, Roberta Rasetti, Joseph H. Callicott, Venkata S. Mattay, Daniel R. Weinberger. Altered Graph Theory Measures of Brain Networks in Patients with Schizophrenia: Potential Intermediate Phenotypes. Society of Biological Psychiatry. May 8-10, 2014. New York, New York.

12. Yuming Huang, **Danielle S. Bassett**, Karen E. Daniels. A community detection method for force chain network identification in 3D granular systems. PASI on Frontiers in Particulate Media: From Fundamentals to Applications. August 11-22, 2014. La Plata, Argentina.
13. Theodore D. Satterthwaite, **Danielle S. Bassett**, Matthew Weber, Brian Avants, Cook, Michael Millham, Yvette Sheline. American College of Neuropsychopharmacology. December 7-11, 2014. Pheonix, Arizona.
14. **Danielle S. Bassett**, Eli Owens, Mason Porter, Lisa Manning, Karen Daniels. A Community-Detection Method for Extracting Force Chain Architectures. 2014 Granular Gordon Conference on Granular and Granular-Fluid Flow. July 2014. Easton, MA.
15. John Medaglia, Fabio Pasqualetti, **Danielle S. Bassett**. Grounding cognitive and brain reserve in network control theory. SfN Translational Neuroscience Conference. November 2014. Arlington, VA.
16. John Medaglia, Fabio Pasqualetti, **Danielle S. Bassett**. Grounding cognitive and brain reserve in network control theory. International Neuropsychological Society conference. February 2015. Denver, CO.
17. John Medaglia, Roy Hamilton, Sharon Thompson-Schill, Shi Gu, **Danielle S. Bassett**. Network control theory as a mediator of transcranial magnetic stimulation effects. American Academy of Neurology. April 18-25, 2015. Washington, DC.
18. Sarah Muldoon, Jean Vettel, **Danielle S. Bassett**. Uncovering structural drivers of dynamic functional brain networks. Dynamics Days. January 9-11, 2015. Houston, TX.
19. Sarah Muldoon, Jean Vettel, **Danielle S. Bassett**. Stimulation reveals structural drivers of dynamic brain reorganization. American Physical Society. March 2-6, 2015. San Antonio, TX.
20. **Danielle S. Bassett**, Sarah Muldoon, Eric Bridgeford. Small-World Propensity: A novel statistic to quantify weighted networks. American Physical Society. March 2-6, 2015. San Antonio, TX.
21. Chad Giusti, Eli Owens, Karen Daniels, **Danielle Bassett**. Community-local homology of force chains in granular materials. American Physical Society. March 2-6, 2015. San Antonio, TX.
22. Sijia Zhang, **Danielle S. Bassett**, Beth Winkelstein. Using dynamic community detection to map collagen fiber network reorganization during tensile loading of the human facet capsular ligament. Summer Biomechanics, Bioengineering and Biotransport Conference. June 17-20, 2015, Snowbird Resort, UT.
23. Qawi Telesford, **Danielle S. Bassett**. Node Cohesion: Understanding changes in community structure in temporal fMRI networks. OHBM 2015. June 14-18, 2015. Honolulu, Hawaii.
24. Shi Gu, Theodore D. Satterthwaite, John Medaglia, Muzhi Yang, Raquel E. Gur, Ruben C. Gur, **Danielle S. Bassett**. Emergence of System Roles in Normative Neurodevelopment. OHBM 2015. June 14-18, 2015. Honolulu, Hawaii.
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26. Kimberly Schlesinger, Elizabeth Davison, **Danielle Bassett**, Mary-Ellen Lynall, Benjamin Turner, Taraz Lee, Michael Miller, Scott Grafton, Jean Carlson. Dynamic network properties of task-associated brain function. COSYNE, 2015.
27. Laura Wiles, **Danielle S. Bassett**, David F. Meaney. Driving Neural Networks: The Benefit of Controllability. BMES, 2015. October 7-10, 2015. Tampa, Florida.

28. Lucy Chai, Marcelo Mattar, Idan Blank, Evelina Fedorenko, **Danielle S. Bassett**. Functional Network Dynamics of the Language System. BMES, 2015. October 7-10, 2015. Tampa, Florida.
29. Ankit Khambhati, Brian Litt, **Danielle S. Bassett**. Virtual Cortical Resection of the Epileptic Network Reveals Controllers of Seizure Dynamics. BMES, 2015. October 7-10, 2015. Tampa, Florida.
30. Ankit Khambhati, Brian Litt, **Danielle S. Bassett**. Virtual Cortical Resection of the Epileptic Network Reveals Controllers of Seizure Dynamics. IWSP7: Epilepsy Mechanisms, Models, Prediction and Control. August 3-6, 2015. Melbourne, Australia.
31. Sarah F. Muldoon, Eric Bridgeford, **Danielle S. Bassett**. Quantifying small-worldness in weighted brain networks: Small-World Propensity. Society for Neuroscience 2015 October 17-21, Chicago, Illinois.
32. Raphael T. Gerraty, Juliet Y. Davidow, Karin Foerde, Adriana Galvan, **Danielle S. Bassett**, and Daphna Shohamy. The Role of Dynamic Network Flexibility in Probabilistic Reinforcement Learning. Society for Neuroscience 2015 October 17-21, Chicago, Illinois.
33. Sarah Feldt Muldoon, Julia Costantini, Ronald P. Lesser, Bob Webber, and **Danielle S. Bassett**. Brain state predicts success or failure of cognitive effort in suppressing epileptic after discharges. Society for Neuroscience 2015 October 17-21, Chicago, Illinois.
34. John D. Medaglia, W. Huang, S. Segarra, C. Olm, J. Gee, M. Grossman, A. Ribeiro, C. T. McMillan, **Danielle S. Bassett**. Frontoparietal network efficiency accurately classifies underlying pathology in corticobasal syndrome. Society for Neuroscience 2015 October 17-21, Chicago, Illinois.
35. Michael Cole, **Danielle S. Bassett**, Douglas Shultz. Brain activations are shaped by activity flow through both intrinsic and task-evoked functional networks. Society for Neuroscience 2015 October 17-21, Chicago, Illinois.
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39. Shi Gu, Fabio Pasqualetti, Matthew Cieslak, Scott T. Grafton, **Danielle S. Bassett**. Controllability of Structural Brain Networks. SIAM DS15. 2015 May 17, 2015, Salt Lake City, Utah.
40. John D. Medaglia, Shi Gu, Fabio Pasqualetti, Caryn Lerman, Joseph Kable, **Danielle S. Bassett**. Network Controllability as a Mediating Mechanism for Impulsivity. Cognitive Neuroscience Society. April 2-5, 2016, New York, NY.
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42. Lia Papadopoulos, Eli T. Owens, Karen E. Daniels, **Danielle S. Bassett**. Dynamic structural network evolution in compressed granular systems. American Physical Society, 2016, March 14-18, 2016. Baltimore, MD.

43. Evelyn May Yin Tang, Chad Giusti, Matthew Cieslak, Scott T. Grafton, **Danielle S. Bassett**. The role of symmetry in the regulation of brain dynamics. American Physical Society, 2016, March 14-18, 2016. Baltimore, MD.
44. Evelyn May Yin Tang, Chad Giusti, Matthew Cieslak, Scott T. Grafton, **Danielle S. Bassett**. The role of symmetry in the regulation of brain dynamics. CoSyne, 2016, February 25 - 28, 2016. Salt Lake City, UT.
45. Ann Sizemore, Chad Giusti, Matthew Cieslak, Scott T. Grafton, **Danielle S. Bassett**. A novel perspective on neural network structure: connections and dissections of homological features. CoSyne, 2016, February 25 - 28, 2016. Salt Lake City, UT.
46. Anup Sharma, Daniel H. Wolf, Rastko Ciric, Natalie Katchmar, Aylin Daldal, Sage Rush, Kosha Ruparel, Claudia Baldassano, Joseph W. Kable, **Danielle S. Bassett**, Theodore D. Satterthwaite. Behavioral Motivation Relates to Dissociable Corticostriatal Functional Connectivity: A Dimensional Analysis of Whole Brain Networks Across Psychiatric Disorders. Society of Biological Psychiatry, 2016. Atlanta, Georgia.
47. Ann Sizemore, Chad Giusti, Matthew Cieslak, Scott T. Grafton, **Danielle S. Bassett**. A novel perspective on neural network structure: connections and dissections of homological features. SIAM 2016, June 15 - 16, 2016. SnowBird, UT.
48. Richard Betzel, Shi Gu, John Medaglia, Fabio Pasqualetti, **Danielle S. Bassett**. The cost of controlling the human connectome. Organization for Human Brain Mapping. June 26-30, 2016. Geneva, Switzerland.
49. Qawi Telesford, Jean M. Vettel, **Danielle S. Bassett**. Cohesive network reconfiguration underlying individual differences in early motor skill learning. Organization for Human Brain Mapping. June 26-30, 2016. Geneva, Switzerland.
50. Weiyu Huang, Leah Goldsberry, Nicholas F. Wymbs, Scott T. Grafton, **Danielle S. Bassett** and Alejandro Ribeiro. Graph Frequency Analysis of Brain Signals. Graph Signal Processing Workshop. May 25-27, 2016. Philadelphia, PA.
51. Ann E. Sizemore, Chad Giusti, Richard Betzel, Matthew Cieslak, Scott Grafton, **Danielle S. Bassett**. Exposing mesoscale connectivity patterns in the structural brain network. Bassett. ECC 2016 The 14th Experimental Chaos and Complexity Conference. May 16-19, 2016, Banff, Canada.
52. Richard F. Betzel, John D. Medaglia, Lia Papadopoulos, **Danielle S. Bassett**. Space-Independent Community Structure of the Human Connectome. Society for Neuroscience, November 12-16, 2016, San Deigo, CA.
53. Lucy Chai, Ankit N. Khambhati, Ruben C. Gur, Raquel E. Gur, Theodore D. Satterthwaite, **Danielle S. Bassett**. Evolution of Brain Network Dynamics in Neurodevelopment. Biomedical Engineering Society (BMES) Annual Meeting, October 5-8, 2016 in Minneapolis, MN.
54. Javier O. Garcia, Qawi K. Telesford, Arian Ashourvan, **Danielle S. Bassett**, Jean M. Vettel. Understanding rapid network reconfigurations within the alpha band following single pulses of TMS: a graph theoretical hodological approach. Society for Neuroscience, November 12-16, 2016, San Deigo, CA.
55. Evelyn Tang, Chad Giusti, Graham Baum, Shi Gu, Ari Kahn, David Roalf, Ruben C. Gur, Raquel E. Gur, Theodore D. Satterthwaite, and **Danielle S. Bassett**. White matter connectivity: controllability and dynamics. Mathematical Biology Institute. Workshop on Control and Observability of Network Dynamics. April 11-15, 2016 in Columbus, OH.

56. Evelyn Tang, Chad Giusti, Graham Baum, Shi Gu, Ari Kahn, David Roalf, Ruben C. Gur, Raquel E. Gur, Theodore D. Satterthwaite, and **Danielle S. Bassett**. White matter connectivity: controllability and dynamics. Mahoney Neuroscience Institute 32nd Annual Retreat, April 27, 2016, Philadelphia, PA.
57. Ari Kahn, Marcelo G. Mattar, Jean M. Veteel, Nicholas F. Wymbs, Scott T. Grafton, **Danielle S. Bassett**. Structural Correlates of Individual Differences in Motor Sequence Learning. Mahoney Neuroscience Institute 32nd Annual Retreat, April 27, 2016, Philadelphia, PA
58. John Medaglia, D S Harvey, N White, **Danielle S. Bassett**, Roy H. Hamilton. Network controllability underlies the role of the inferior frontal gyrus in word selection processes. Society for Neuroscience, November 12-16, 2016, San Deigo, CA.
59. J.D., **Bassett, D.S.**, Williams, K., & Hamilton, R.H. *CONNECTS*: A Translational Neuroscience Initiative in Networks and Neurorehabilitation. Medaglia, PIRM research day, Philadelphia, PA. May, 2016.
60. Graham L. Baum, Rastko Ciric, David R. Roalf, Tyler M. Moore, Ari Kahn, Rick Betzel, Megan Quarmley, Phillip Cook, Kosha Ruparel, Ruben C. Gur, Raquel E. Gur, **Danielle S. Bassett**,* Theodore D. Satterthwaite*. Modular evolution of structural brain networks in adolescence supports executive function. Society for Neuroscience, November 12-16, 2016, San Deigo, CA.
61. Ari E. Kahn, Marcelo G. Mattar, Jean M. Vettel, Nicholas F. Wymbs, Scott T. Grafton, **Danielle S. Bassett**. Structural Correlates of Individual Differences in Motor Sequence Learning. Society for Neuroscience, November 12-16, 2016, San Deigo, CA.
62. Arian Ashourvan, Shi Gu, Marcelo G. Mattar, Jean M. Vettel, **Danielle S. Bassett**. Energy landscape underpinning module dynamics in the human connectome. Society for Neuroscience, November 12-16, 2016, San Deigo, CA.
63. Shi Gu, Richard F. Betzel, Matthew Cieslak, Scott T. Grafton, Fabio Pasqualetti, **Danielle S. Bassett**. Optimal Trajectories for Brain State Transitions. Society for Neuroscience, November 12-16, 2016, San Deigo, CA.
64. Evelyn Tang, Chad Giusti, Graham Baum, Shi Gu, Ari E. Kahn, David Roalf, Ruben C. Gur, Raquel E. Gur, Theodore D. Satterthwaite, and **Danielle S. Bassett**. White matter connectivity supports increasing diversity of neural dynamics across normative neurodevelopment. Society for Neuroscience, November 12-16, 2016, San Deigo, CA.
65. Andrew Murphy, Shi Gu, Nicholas F. Wymbs, Scott T. Grafton, **Danielle S. Bassett**. Explicitly Linking Regional Activation and Functional Connectivity: Community Structure of Weighted Networks with Continuous Annotation .Society for Neuroscience, November 12-16, 2016, San Deigo, CA.
66. Ann Sizemore, Chad Giusti, Richard F. Betzel, Matthew Cieslak, Scott T. Grafton, **Danielle S. Bassett**. Closures and Cavities in the Human Structural Connectome. Society for Neuroscience, November 12-16, 2016, San Deigo, CA.
67. Chad Giusti, Greg Henselman, David Roalf, Ruben C. Gur, Raquel E. Gur, Theodore D. Satterthwaite, and **Danielle S. Bassett**. Topological characterization of mesoscale structure in resting state fMRI. Society for Neuroscience, November 12-16, 2016, San Deigo, CA.
68. Preya Shah, Sandhitsu Das, John Detre, Joel Stein, Mark Elliot, **Danielle S. Bassett**, Carlos Coto, Laura Wisse, Brian Litt, Kathryn A. Davis. Mapping the structural and functional network architecture of the medial temporal lobe using 7T MRI. Society for Neuroscience, November 12-16, 2016, San Deigo, CA.

69. Gregory Lieberman, Javier O. Garcia, **Danielle S. Bassett**, Michael J. Tarr, Jean M. Vettel. Network flexibility during multisensory integration of real-world events. Society for Neuroscience, November 12-16, 2016, San Deigo, CA.
70. Raphael Gerraty, Madeleine Sharp, Amanda Buch, **Danielle S. Bassett**, Daphna Shohamy. The role of dopamine in dynamic connectivity during learning: evidence from Parkinson's disease. Society for Neuroscience, November 12-16, 2016, San Deigo, CA.
71. Elisabeth A. Karuza, Ari E. Kahn, Sharon L. Thompson-Schill, **Danielle S. Bassett**. Beyond graph topology: Walk structure influences cluster-level surprisal effects in an on-line learning task. Psychonomics. November 17-20, 2016, Boston, Massachusetts, USA.
72. Preya Shah, **Danielle S. Bassett**, John A. Detre, Joel M. Stein, Mark A. Elliott, John Pluta, Elijah Valenciano, Carlos Coto, Laura Wisse, Brian Litt, Sandhitsu R. Das, Kathryn A. Davis. Disrupted structural and functional network connectivity of medial temporal lobe subregions in temporal lobe epilepsy. American Epilepsy Society Annual Meeting. December 2, 2016, Houston, Texas.
73. Medaglia, J.D., Huang, W., Thompson-Schill, S.T., Ribeiro, A., & **Bassett, D.S.** Functional Flexibility in the Structural Connectome Promotes Cognitive Flexibility. 10th FENS Forum of Neuroscience 2016. Copenhagen, Denmark.
74. Ankit N. Khambhati, Kathryn A. Davis, Timothy H. Lucas, Brian Litt, **Danielle S. Bassett**. Push-pull regulation of seizure evolution in the epileptic network. Gordon Research Conference: Mechanisms of Epilepsy & Neuronal Synchronization. August 20-21, 2016. Girona, Spain.
75. Heidi K. Norton, Harvey Huang, Daniel J. Emerson, Jesi Kim, Shi Gu, **Danielle S. Bassett**, Jennifer E. Phillips-Cremins. Quantifying hierarchical 3D genome folding dynamics with network modularity. PICS symposium. Oct 9, 2016. Philadelphia, PA.
76. Ralf Schmäzle, Matthew Brook O'Donnell, Javier O. Garcia, Chris Cascio, Joseph Bayer, **Danielle S. Bassett**, Jean Vettel, & Emily Falk. Brain connectivity dynamics during social interaction reflect social network structure. Social and Affective Neuroscience Society. March 16-18, 2017. Los Angeles, CA.
77. Ralf Schmäzle, Matthew Brook O'Donnell, Javier O. Garcia, Chris Cascio, Joseph Bayer, **Danielle S. Bassett**, Jean Vettel, & Emily Falk. Brain connectivity dynamics during social interaction reflect social network structure. International Communication Association. May 25-29, 2017. San Diego, CA.
78. Kanika Bansal, John D. Medaglia, **Danielle S. Bassett**, Jean M. Vettel and Sarah F. Muldoon. Using data-driven computational brain models to predict individual differences in task performance. CAN CTA Meeting, Austin, TX on October 25, 2016.
79. Kanika Bansal, John D. Medaglia, **Danielle S. Bassett**, Jean M. Vettel and Sarah F. Muldoon. Using data-driven models of brain function to predict individual differences in task performance. Dynamics Days, Silver Spring, MD on January 4-6, 2017.
80. Nathan Tardiff, **Danielle S. Bassett**, & Sharon L. Thompson-Schill. Arousal-induced changes in functional brain networks during exploration and exploitation. Cognitive Neuroscience Society, March 25-28, 2017.
81. Ann Sizemore, Chad Giusti, Richard Betzel, **Danielle S. Bassett**. Cliques and Cavities in the Human Connectome. Union College Mathematics Conference. Schenectady, New York on Dec 3-4, 2016.
82. Maxwell Bertolero, Thomas Yeo, **Danielle S. Bassett**, Mark D'Esposito. Connector hub connectivity predicts modularity and performance in multiple cognitive tasks. Society for Neuroscience, November 12-16, 2016, San Deigo, CA.

83. Lia Papadopoulos, Jason Kim, **Danielle S. Bassett**. Improving global synchronization via local rewiring in networks of Kuramoto oscillators. American Physical Society March Meeting. March 13-17, 2017. New Orleans, LA.
84. Katherine Wood, **Danielle S. Bassett**, Maria N. Geffen. Revealing hierarchical modular structure within cortical population neuronal activity. CoSyne. 23 - 26 February 2017 in Salt Lake City, UT.
85. Evelyn Tang, Marcelo G. Mattar, Sharon L. Thompson-Schill, **Danielle S. Bassett**. The learning of value is accompanied by a growing dimensionality of neural representations. CoSyne. 23 - 26 February 2017 in Salt Lake City, UT.
86. Sofia Karamintziou, Chiara Favaretto, Lorenzo Tiberi, António J. Bastos-Leite, Gerard R. Ridgway, Celeste Silveira, Karl J. Friston, **Danielle S. Bassett**, Fabio Pasqualetti. A control-theoretic approach to modulating brain network dynamics in schizophrenia. CoSyne. 23 - 26 February 2017 in Salt Lake City, UT.
87. Evelyn Tang, Chad Giusti, Graham Baum, Shi Gu, Ari E. Kahn, David Roalf, Tyler M. Moore, Kosha Ruparel, Ruben C. Gur, Raquel E. Gur, Theodore D. Satterthwaite, and **Danielle S. Bassett**. Increasingly diverse brain dynamics in the developmental arc: using Pareto-optimization to infer a mechanism. American Physical Society March Meeting. March 13-17, 2017. New Orleans, LA.
88. Jason Kim, Fabio Pasqualetti, **Danielle S. Bassett**. Topological Principles of Control in Dynamical Networks. American Physical Society March Meeting. March 13-17, 2017. New Orleans, LA.
89. Ankit N. Khambhati, Lucy Chai, Kathryn A. Davis, Rastko Ciric, Tyler Moore, Ruben C. Gur, Raquel E. Gur, Timothy H. Lucas, Brian Litt, Theodore D. Satterthwaite, **Danielle S. Bassett**. Homeostatic control of functional dynamics in human brain networks. BRAIN Initiative Investigators Meeting (Dec 12-14), Bethesda, MD.
90. Lia Papadopoulos, Jason Kim, **Danielle S. Bassett**. Improving global synchronization via local rewiring in networks of Kuramoto oscillators. SIAM Conference on Applications of Dynamical Systems (DS17) May 21-25, 2017. Snow Bird, Utah.
91. Jason Kim, Fabio Pasqualetti, **Danielle S. Bassett**. Topological Principles of Control in Dynamical Networks. SIAM Conference on Applications of Dynamical Systems (DS17) May 21-25, 2017. Snow Bird, Utah.
92. Steve Tompson, Emily Falk, **Danielle S. Bassett**. Social Context Moderates Neural Processing of Choice Information. Social and Affective Neuroscience Society. March 16-18, 2017. Los Angeles, CA.
93. Evelyn Tang, Chad Giusti, Graham Baum, Shi Gu, Ari E. Kahn, David Roalf, Tyler M. Moore, Kosha Ruparel, Ruben C. Gur, Raquel E. Gur, Theodore D. Satterthwaite, and **Danielle S. Bassett**. Moving to the Network Level in Brain Activity Control: Implications for Cognition and Development. SIAM Conference on Applications of Dynamical Systems (DS17) May 21-25, 2017. Snow Bird, Utah.
94. Jayson Jeganathan, Alistair Perry, **Danielle S. Bassett**, Gloria Roberts, Phil Mitchell, Michael Breakspear. Impaired structural network controllability in bipolar disorder and in young people at high genetic risk. OHBM 2017 June 27-29. Vancouver, Canada.
95. Xia CH, Ciric R, Ma Z, Shinohara RT, Betzel RR, Calkins ME, Cook PA, Garcia de La Garza A, Moore TM, Roalf DR, Ruparel K, Wolf DH, Gur RC, Gur RE, **Bassett DS**, Satterthwaite TD. Mapping patterns of network dysconnectivity in the developing brain to psychopathology across clinical diagnostic categories. OHBM 2017 June 27-29. Vancouver, Canada.

96. Ciric R, Wolf DH, Power JD, Roalf DR, Baum G, Ruparel K, Shinohara RT, Elliott MA, Eickhoff SB, Davatzikos C, Gur RC, Gur RE, **Bassett DS**, Satterthwaite TD. Benchmarking strategies for the control of motion artefact in studies of functional connectivity. OHBM 2017 June 27-29. Vancouver, Canada.
97. Xiaosong He, **Danielle Bassett**, Chaitanya Ganne, Lauren Kozlowski, Shatha Alwethinani, Na Young Kim, Noah Sideman, Ankit Khambhati, and Joseph I Tracy. Functional network dynamics of the language system in temporal lobe epilepsy. OHBM 2017 June 27-29. Vancouver, Canada.
98. Zhen Yang, Shi Gu, Irem Aselcioglu, Theodore Satterthwaite, Philip Cook, Stephen Bruce, Desmond Oathes, **Danielle Bassett**, Yvette Sheline. Functional Organization and Network Roles in MDD and PTSD: Categorical and Dimensional Perspective. OHBM 2017 June 27-29. Vancouver, Canada.
99. Boris C. Bernhardt; Min Liu; Seok-Jun Hong, Shi Gu; **Danielle Bassett**; Jonathan Smallwood; Andrea Bernasconi; Neda Bernasconi. Hippocampal subfield anomalies modulate whole-brain pathoconnectomics in temporal lobe epilepsy. OHBM 2017 June 27-29. Vancouver, Canada.
100. Lia Papadopoulos, Jason Kim, **Danielle S. Bassett**. Improving global synchronization via local rewiring in networks of Kuramoto oscillators. Keystone Symposium on Connectomics. Santa Fe, New Mexico, USA. March 5-8, 2017.
101. Ankit N. Khambhati, John D. Medaglia, Elisabeth A. Karuza, Sharon L. Thompson-Schill, **Danielle S. Bassett**. Functional subgraphs of brain networks modulate cognitive control processes between task states. Keystone Symposium on Connectomics. Santa Fe, New Mexico, USA. March 5-8, 2017.
102. Richard F. Betzel, **Danielle S. Bassett**. Connectome community structure: Weighted blockmodels versus modularity maximization. OHBM 2017 June 27-29. Vancouver, Canada.
103. Ankit N. Khambhati, Marcelo G. Mattar, **Danielle S. Bassett**. Non-negative matrix factorization uncovers topological modes of dynamic functional brain networks. OHBM 2017 June 27-29. Vancouver, Canada.
104. Richard Betzel & **Danielle S. Bassett**. Correspondence of connectome architecture with intracranial functional brain networks. NetSci 2017. Bloomington, IN
105. Andrew C. Murphy, Sarah F. Muldoon, David Baker, Adam Lastowka, Brittany Bennett, Muzhi Yang, **Danielle S. Bassett**. Structure, Function, and Control of the Musculoskeletal Network. NetSci 2017. Bloomington, IN
106. Xia CH, Ciric R, Ma Z, Shinohara RT, Betzel RR, Calkins ME, Cook PA, Garcia de La Garza A, Moore TM, Roalf DR, Ruparel K, Wolf DH, Gur RC, Gur RE, **Bassett DS**, Satterthwaite TD. Discovering linked dimensions of psychopathology and dysconnectivity in high-dimensional brain networks. Joint Statistical Meetings 2017. July 29th-Aug 3rd Baltimore, Maryland.
107. **Danielle S. Bassett**. The Network Architecture of Human Thought. ESEB 2017. August 20-25, Groningen, The Netherlands.
108. Steven Tompson, Ari Kahn, Emily Falk, Jean Vettel, **Danielle S. Bassett**. How do people learn social and non-social community structures? Context and Episodic Memory 2017. May 4-5, Philadelphia, PA.
109. Ari E. Kahn, Elisabeth A. Karuza, Sharon L. Thompson-Schill, Jean M. Vettel, **Danielle S. Bassett**. Network context drives learnability of relational data. Context and Episodic Memory 2017. May 4-5, Philadelphia, PA.
110. Richard F. Betzel, **Danielle S. Bassett**. The geometric, genetic, and structural basis of functional connectivity in whole-brain ECoG networks. NetSci 2017. Bloomington, IN.

111. Kanika Bansal, John D. Medaglia, **Danielle S. Bassett**, Jean M. Vettel, Sarah F. Muldoon. Data driven models of brain network dynamics predict individual differences in performance on a cognitively-demanding task. SIAM Network Science Workshop, July 13-14, Pittsburgh, PA.
112. Elizabeth E. Karuza, Sharon Thompson-Schill, **Danielle S. Bassett**. Community structure based on shared visual features guides acquisition of object categories. Cognitive Network Science 2017, A Satellite Workshop at NetSci2017, Indianapolis, US. 19 June 2017
113. Bruce Dore, Christopher Scholz, E Baek, Javier Garcia, **Danielle S. Bassett**, Jean M. Vettel, Emily B. Falk. vmPFC activity predicts population behavior by capturing consensus judgments of value. Social and Affective Neuroscience Society. March 16-18, 2017. Los Angeles, CA.
114. Muldoon SF, Pasqualetti F, Gu S, Cieslak M, Grafton ST, Vettel JM, **Bassett DS**. Data-driven modeling of brain dynamics: stimulation and control. American Mathematical Society. May 6-7, 2017. New York, NY.
115. Darrick Lee, Ann Sizemore, Robert Ghrist, **Danielle S. Bassett**. Random Clique Topology of the Stochastic Block Model. Applied Algebraic Topology 2017, August 8 - 12, 2017, Sapporo, Japan.
116. Ann Sizemore, Chad Giusti, Ari Kahn, Richard F. Betzel, **Danielle S. Bassett**. Cliques and cavities in the human connectome. Applied Algebraic Topology 2017, August 8 - 12, 2017, Sapporo, Japan.
117. Graham L. Baum, David R. Roalf, Rastko Ciric, Adon Rosen, Mark A. Elliot, Petra Rupert, Megan Quarmley, Philip A. Cook, Kosha Ruparel, Ruben C. Gur, Raquel E. Gur, **Danielle S. Bassett**, Theodore D. Satterthwaite. In-scanner head motion systematically impacts estimates of structural connectivity: implications for studies of structural brain network development. Society for Neuroscience, November 11-15, Washington, DC.
118. Xia CH, Ma Z, Ciric R, Gu S, Betzel RF, Calkins ME, Cook PA, Garcia de La Garza A, Moore TM, Roalf DR, Ruparel K, Wolf DH, Gur RC, Gur RE, Davatzikos C, Shinohara RT, **Bassett DS**, & Satterthwaite TD. Discovering linked dimensions of psychopathology and functional connectivity in high-dimensional brain networks. Society for Neuroscience, November 11-15, Washington, DC.
119. Richard F. Betzel, Katherine C. Wood, Maria Neimark Geffen, **Danielle S. Bassett**. Meso-scale structure and quotidian variation of neuronal networks estimated from two-photon imaging of mouse auditory cortex. Society for Neuroscience, November 11-15, Washington, DC.
120. Azeez Adebimpe, **Danielle S. Bassett**, Daniel Romer. Young adult neural responses to viewing gun violence videos. Society for Neuroscience, November 11-15, Washington, DC.
121. Daniel R. Schonhaut, Ari E. Kahn, Richard F. Betzel, **Danielle S. Bassett**. Gene co-expression patterns underlie cognitive process divisions of human neocortex. Society for Neuroscience, November 11-15, Washington, DC.
122. Katherine Wood, Richard F. Betzel, Christopher Angeloni, Mark Aizenberg, **Danielle S. Bassett**, Maria N. Geffen. Auditory fear conditioning drives changes in frequency representation and functional organization of neuronal populations in the auditory cortex. Society for Neuroscience, November 11-15, Washington, DC.
123. Teresa M. Karrer, **Danielle S. Bassett**, Danilo Bzdok. Automated Screening of Impaired Mental Domains in Schizophrenia. Computational Cognitive Neuroscience. September 6-8, 2017.
124. 40. Xia CH, Ma Z, Ciric R, Gu S, Betzel RF, Calkins ME, Cook PA, Garcia de La Garza A, Moore TM, Roalf DR, Ruparel K, Wolf DH, Gur RC, Gur RE, Davatzikos C, Shinohara RT,

Bassett DS, & Satterthwaite TD. Discovering linked dimensions of psychopathology and functional connectivity in high-dimensional brain networks. Organization on Human Brain Mapping, June 27-30, Vancouver, BC.

125. Xia CH, Ma Z, Ciric R, Gu S, Betzel RF, Calkins ME, Cook PA, Garcia de La Garza A, Moore TM, Roalf DR, Ruparel K, Wolf DH, Gur RC, Gur RE, Davatzikos C, Shinohara RT, **Bassett DS**, & Satterthwaite TD. Discovering linked dimensions of psychopathology and functional connectivity in high-dimensional brain networks. Joint Statistic Meeting, July 29 - August 3, Baltimore, MD.

126. Lucy R. Chai, Ankit N. Khambhati, Ruben C. Gur, Raquel E. Gur, Theodore D. Satterthwaite, **Danielle S. Bassett**. Evolution of brain network dynamics in neurodevelopment. Biomedical Engineering Annual Meeting. Oct 6-8, 2016. Minneapolis, MN.

127. Andrew C. Murphy, Rastko Ciric, Theodore D. Satterthwaite, **Danielle S. Bassett**. The role of network architecture and control in working memory. Computational Cognitive Neuroscience. September 6-8, 2017.

128. Graham L. Baum, Rastko Ciric, Cedric Xia, David R. Roalf, Richard F. Betzel, Tyler M. Moore, Russell T. Shinohara, Philip A. Cook, Mark A. Elliott, Kosha Ruparel, Christos Davatzikos, Raquel E. Gur, Ruben C. Gur, **Danielle S. Bassett**, and Theodore D. Satterthwaite. Mapping network-level coupling of structural and functional connectivity during adolescence. Flux Congress. September 16-18, 2017. Portland, Oregon.

129. Arian Ashourvan, Sergio Pequito, Ankit N. Khambhati, Steve Baldassano, Kathryn Davis, Timothy Lucas, Jean M. Vettel, Brian Litt, George Pappas, **Danielle S. Bassett**. Parsing spatiotemporal dynamical stability in ECoG during seizure onset, propagation, and termination. ICTALS2017, University of Minnesota, Minneapolis, MN. August 20-23, 2017.

130. Boris Bernhardt, Min Liu, Shi Gu, Hong Seok-Jun, Jonathan Smallwood, Beth Jefferies, **Danielle S. Bassett**, Andrea Bernasconi, Neda Bernasconi. Temporal lobe epilepsy: microscopic hippocampal anomalies modulate whole-brain pathoconnectomics. American Epilepsy Society (AES) Annual Meeting, Washington, DC. December 1-5, 2017.

131. Zhen Yang, Shi Gu, Nicolas Honnorat, Desmond Oathes, Stephen Bruce, Taki Shinohara, Philip A. Cook, Irem Aselcioglu, Kristin Linn, Theodore D. Satterthwaite, **Danielle S. Bassett**, Yvette I. Sheline. Intrinsic functional organization and network roles in MDD and PTSD change with Cognitive Behavioral Therapy (CBT). ACNP, Dec 3-7, 2017, Palm Springs, CA.

131. Shi Gu and **Danielle S. Bassett**. Controllability and Trajectories of Brain State Transitions. NetSciX 2018. Jan 5-8 Hangzhou China.

132. Christopher Lynn, Lia Papadopoulos, Daniel Lee and **Danielle S. Bassett**. Collective human activity emerges from simple pairwise interactions. 9th Conference on Complex Networks. Boston, USA, March 5-8, 2018.

133. Ari Kahn, Elisabeth Karuza, Jean Vettel and **Danielle S. Bassett**. Network constraints on learnability of probabilistic motor sequences. 9th Conference on Complex Networks. Boston, USA, March 5-8, 2018.

134. Vivek Buch, **Danielle S. Bassett**, Timothy Lucas. Dynamic modularity of the fronto-temporo-limbic network precedes enhanced task performance. American Association of Neurological Surgeons. New Orleans, LO. April 28-May 2, 2018.

135. Lia Papadopoulos, **Danielle S. Bassett**. State- and distance-dependent adaptive rewiring in spatial networks. APS March Meeting 2018. March 5-9, 2018. Los Angeles, CA.

136. Evelyn Tang, Fabio Pasqualetti, **Danielle S. Bassett**. The control of brain activity across spatial and temporal scales. APS March Meeting 2018. March 5-9, 2018. Los Angeles, CA.
137. Christopher W. Lynn, Lia Papadopoulos, Daniel L. Lee, **Danielle S. Bassett**. Surges of collective human activity emerge from simple pairwise interactions. APS March Meeting 2018. March 5-9, 2018. Los Angeles, CA.
138. Jason Z. Kim, **Danielle S. Bassett**. Role of Connectivity in the Conformational Control of Maxwell Frames. APS March Meeting 2018. March 5-9, 2018. Los Angeles, CA.
139. Steven H. Tompson, Ari E. Kahn, Emily B. Falk, Jean M. Vettel, **Danielle S. Bassett**. Individual Differences in Learning Social and Non-Social Network Structures. SPSP Social Cognition Pre-Conference, Atlanta, March 1-3 2018.
140. Jérémy Lefort-Besnard, **Danielle S. Bassett**, Jonathan Smallwood, Daniel S. Margulies, Birgit Dernt, Oliver Gruber, Andre Aleman, Renaud Jardri, Gaël Varoquaux, Bertrand Thirion, Simon B. Eickhoff, Danilo Bzdok. Different shades of default mode disturbance in schizophrenia: Subnodal covariance estimation in structure and function. OHBM, Singapore, June 17-21, 2018.
141. Evelyn Tang, Marcelo Mattar, Chad Giusti, Sharon Thompson-Schill, **Danielle S. Bassett**. Effective learning is accompanied by high dimensional & efficient representations of neural activity. CoSyne. Mar 1-4, 2018. Denver, Colorado.
142. Katherine Wood, Richard F. Betzel, **Danielle S. Bassett**, Maria Geffen. Reorganization of cortical population neuronal activity following auditory fear conditioning. CoSyne. Mar 1-4, 2018. Denver, Colorado.
143. Teresa M. Karrer, **Danielle S. Bassett**, Birgit Dernt, Oliver Gruber, Andre Aleman, Renaud Jardri, Danilo Bzdok. Data-guided screening of impaired mental domains in schizophrenia. OHBM 2018, Singapore. July 17-21, 2018
144. Robert J. Jirsaraie, Sage Rush, Antonia N. Kaczurkin, Adon FG Rosen, Aristeidis Sotiras, Rastko Ciric, Phillip A. Cook, Mark A. Elliott, David R. Roalf, **Danielle S. Bassett**, Russell T. Shinohara, Ellen Leibenluft, Christos Davatzikos, Daniel H. Wolf, Theodore D. Satterthwaite. Accelerated Cortical Thinning within Structural Brain Networks is Associated with Irritability in Youth. Society of Biological Psychiatry (SOBP), New York NY, May 10-12, 2018.
145. Shi Gu, Rastko Ciric, Ruben Gur, Raquel Gur, Theodore D. Satterthwaite, **Danielle S. Bassett**. Unifying Modular and Core-Periphery Structure in Functional Brain Networks. OHBM 2018, Singapore. July 17-21, 2018.
146. Xiaosong He, **Danielle S. Bassett**, Chaitanya Ganne, Noah Sideman, Hela Saidi, Ellen Eline, Na Young Kim, and Joseph I Tracy. Increased Modal Controllability in Temporal Lobe Epilepsy. OHBM 2018, Singapore. July 17-21, 2018.
147. Jeniffer Stiso, Ankit N. Khambhati, Tommaso Menara, Ari E. Kahn, Kathryn A. Davis, Joseph Tracy, Timothy H. Lucas, Fabio Pasqualetti, and **Danielle S. Bassett**. Structural Connectivity Guides Direct Cortical Stimulation Through Optimal State Transitions. NetSci 2018, Paris, France. June 11-15, 2018.
148. Lydon-Staley, D.M., Ciric, R., Gur, R.C., Gur, R.E., Satterthwaite, T.D., and **Bassett, D.S.** Evaluation of confound regression strategies for the mitigation of motion artifact in studies of dynamic resting state

functional connectivity. American Psychological Association. August 9-12, 2018, San Francisco, California.

149. Steven H. Tompson, Ari E. Kahn, Emily B. Falk, Jean M. Vettel, **Danielle S. Bassett**. Brain networks linked to social versus non-social network learning. Society for Neuroscience. 2018. Los Angeles.

150. Abigail Poteshman, Lia Papadopoulos, Evelyn Tang, Lee C. Bassett, **Danielle S. Bassett**. A Network Model of Transport through Quantum Antidots. NetSci 2018. Paris, France. June 11-14, 2018.

151. Medaglia, J.D., Harvey, D.Y., White, N., Kelkar, A., Zimmermann, J., **Bassett, D.S.**, Hamilton, R.H. (2018, June). Network Controllability in the Inferior Frontal Gyrus Relates to Controlled Language Variability and Susceptibility to Neuromodulation. Poster to be presented at the NIH High-Risk/High-Reward Research Symposium.

152. Eli J. Cornblath, Kosha Ruparel, Tyler Moore, Ruben Gur, Raquel Gur, David R. Roalf, Theodore D. Satterthwaite, **Danielle S. Bassett**. State transitions constrained by white matter architecture. Society for Neuroscience. 2018. San Diego.

153. Jennifer Stiso, Ankit N. Khambhati, Tommaso Menara, Ari E. Kahn, Joel M. Stein, Sandy R. Das, Michael Sperling, Richard Gorniak, Joseph Tracy, Brian Litt, Kathryn A. Davis, Fabio Pasqualetti, Timothy Lucas, & **Danielle S. Bassett**. White Matter Network Architecture Guides Direct Electrical Stimulation Through Optimal State Transitions. Society for Neuroscience. 2018. San Diego.

154. Harang Ju, Jason Z. Kim, **Danielle S. Bassett**. Neuronal networks underlying avalanche dynamics support stimulus filtering. Society for Neuroscience. 2018. Los Angeles.

155. Richard F. Betzel, Maxwell Bertolero, **Danielle S. Bassett**. A roadmap for multi-scale and multi-subject analysis of human functional brain networks. Society for Neuroscience. 2018. San Diego.

156. Garcia, J.O., Ashourvan, A., Thurman, S., Wasylyshyn, N., Tompson, S.H., Lauharatanahirun, N., Cieslak, M., Elliot, J., Okafor, G., Giesbrecht, B., Grafton, S., Flynn-Evans, E., **Bassett, D.S.**, and Vettel, J.M. Linking naturalistic sleep fluctuations to the energy landscape in dynamic brain modules. Society for Neuroscience. 2018. San Diego.

157. Lia Papadopoulos, Jason Z. Kim, Jurgen Kurths, **Danielle S. Bassett**. Development of structural patterns and synchronization from adaptive rewiring in networks of Kuramoto oscillators. SIAM Dynamical Systems. May 24, 2017. Salt Lake City, UT.

158. Richard F. Betzel, John D. Medaglia, **Danielle S. Bassett**. Diversity of meso-scale architecture in the human and non-human connectome. Annual Meeting of the Organization for Human Brain Mapping. Vancouver, BC. June 26, 2017.

159. Richard F. Betzel, **Danielle S. Bassett**. Correspondence of connectome architecture with intracranial functional brain networks. Annual Meeting of the Network Science Society. Indianapolis, IN. June 21, 2017.

160. Richard F. Betzel, Katherine C. Wood, Maria Neimark Geffen, **Danielle S. Bassett**. Meso-scale structure and quotidian variation of neuronal networks estimated from two-photon imaging of mouse auditory cortex. Annual Meeting of the Society for Neuroscience. Washington, DC. November 12, 2017.

161. Richard F. Betzel, **Danielle S. Bassett**. The specificity and robustness of long-distance connections in weighted, interareal connectomes. Annual Meeting of the Cognitive Neuroscience Society. Boston, MA. March 23, 2018.
162. Cedric H. Xia, Zongming Ma, Rastko Ciric, Shi Gu, Richard Betzel, Monica Calkins, Philip Cook, Angel Garcia de la Garza, Simon Vandekar, Zaixu Cui, Tyler Moore, David Roalf, Kosha Ruparel, Daniel Wolf, Ruben Gur, Raquel Gur, Christos Davtzikos, Russell Shinohara, **Danielle S. Bassett**, Theodore D. Satterthwaite, Linked dimensions of psychopathology and functional connectivity in brain networks. SfN, Nov 11–15, 2017, Washington, DC.
163. Cedric H. Xia, Zongming Ma, Rastko Ciric, Shi Gu, Richard Betzel, Monica Calkins, Philip Cook, Angel Garcia de la Garza, Simon Vandekar, Zaixu Cui, Tyler Moore, David Roalf, Kosha Ruparel, Daniel Wolf, Ruben Gur, Raquel Gur, Christos Davtzikos, Russell Shinohara, **Danielle S. Bassett**, Theodore D. Satterthwaite, Linked dimensions of psychopathology and functional connectivity in brain networks. OHBM, Jun 25–29, 2017, Vancouver, BC.
164. Elisabeth Karuza, **Danielle S. Bassett**, Mariya Bershada, Sharon Thompson-Schill. Pushing the boundaries of the learning process: Sensitivity to community structure across input domains. Psychonomic Society's Annual Meeting, Vancouver, Canada. November 9-12, 2017.
165. James E. Schmitt, Douglas Coulter, Steward Anderson, David Roalf, Laura Almasy, Beverly Emanuel, Donna McGinn, **Danielle S. Bassett**, Raquel E. Gu. Probing genomic variation in 22q11.2 affecting brain-behavior phenotypes of social processing in human and mouse model. ACNP. Dec 9-13, 2018. The Diplomat Beach Resort, Hollywood, Florida.
166. Chelsea Harmon, Raphael Gerraty, Juliet Davidow, Karin Foerde, Adriana Galvan, **Danielle S. Bassett**, Daphna Shohamy. Reinforcement Learning and Dynamic Network Flexibility in Adolescence. Flux Congress, 2018. Berlin Germany. August 30-Sept 1, 2018.
167. Jennifer Stiso, Ankit Khambhati, Tommaso Menara, Ari Kahn, Joel Stein, Sandihitsu Das, Richard Gorniak, Joseph Tracy, Brian Litt, Kathryn Davis, Fabio Pasqualetti, Timothy Lucas, **Danielle S. Bassett**. White Matter Network Architecture Guides Direct Electrical Stimulation Through Optimal State Transitions. CCN 2018, Philadelphia, PA. September 5-8, 2018.
168. Eli Cornblath, Rastko Ciric, Graham Baum, Kosha Ruparel, Tyler Moore, Ruben Gur, Raquel Gur, David Roalf, Theodore Satterthwaite, **Danielle S. Bassett**. Structural support for brain state transitions that contribute to working memory. CCN 2018, Philadelphia, PA. September 5-8, 2018.
169. Harang Ju, Jason Kim, **Danielle S. Bassett**. The network topology of neural systems supporting avalanche dynamics predicts stimulus propagation and recovery. CCN 2018, Philadelphia, PA. September 5-8, 2018.
170. Ari E. Kahn, Elisabeth A. Karuza, Jean M. Vettel, **Danielle S. Bassett**. Network constraints on learnability of probabilistic motor sequences. CCN 2018, Philadelphia, PA. September 5-8, 2018.
171. Christopher Lynn, Ari Kahn, **Danielle S. Bassett**. Structure from Noise: Mental Errors Yield Abstract Representations of Events. CCN 2018, Philadelphia, PA. September 5-8, 2018.
172. Andrew Murphy, Maxwell Bertolero, **Danielle S. Bassett**. The strength of functional connectivity between the frontoparietal and default mode systems correlates with behavioral performance on a variety of tasks in the Human Connectome Project. CCN 2018, Philadelphia, PA. September 5-8, 2018.

173. Maxwell Bertolero, Graham Baum, Theodore D. Satterthwaite, **Danielle S. Bassett**. Brain connectivity is modularly represented in the genome. CCN 2018, Philadelphia, PA. September 5-8, 2018.
174. Jason Z. Kim, **Danielle S. Bassett**. Learning Simple Computations in Dynamical Systems by Example. CCN 2018, Philadelphia, PA. September 5-8, 2018.
175. Christopher W. Lynn, Ari E. Kahn, & **Danielle S. Bassett**. Structure from noise: Mental errors yield abstract representations of events. CCS 2018. Thessaloniki Greece. 23-28 Sep 2018. Satellite on “Complexity from Cells to Consciousness: Free Energy, Integrated Information, and Epsilon Machines.”
176. Christopher W. Lynn, Ari E. Kahn, & **Danielle S. Bassett**. Surges of collective human activity emerge from simple pairwise correlations. CCS 2018. Thessaloniki Greece. 23-28 Sep 2018. Satellite on “Physics of Self-Organization in Complex Systems.”
177. **Danielle S. Bassett**. Richer statistical models of mesoscale architecture in human brain networks. ENAR, Philadelphia, PA. March 24-27, 2018.
178. Carrisa V Cocuzza, Julia Hamilton, Emily Winfield, **Danielle S. Bassett**, Michael W Cole. A Network Science Cartography of Cognitive Control Systems. CCN 2018, Philadelphia, PA. September 5-8, 2018.
179. Baller EB, Kaczurkin AN, Sotiras A, Varol E, Moore TM, Xia HC, Calkins ME, Gur RE, Gur RC, Wolf DH, **Bassett DS**, Davatzikos C, Satterthwaite TD. Semi-supervised machine learning reveals cognitive heterogeneity in depressed youth. ACNP. December 9-13, 2018. Hollywood, Florida.
180. Eli J. Cornblath, Arian Ashourvan, Jason Z. Kim, Richard F. Betzel, Rastko Ciric, Graham L. Baum, Xiaosong He, Kosha Ruparel, Tyler M. Moore, Ruben C. Gur, Raquel E. Gur, Russell T. Shinohara, David R. Roalf, Theodore D. Satterthwaite, **Danielle S. Bassett**. White matter connectivity supports brain state transitions underlying working memory performance. 2019 Winter Conference on Brain Research. Jan 28-Feb 2, 2019. Snowmass, Colorado.
181. Vivek P. Buch, Cameron Brandon, Ryan Archer, Jennifer Stiso, Ashwin Rammayya, Andrew Yang, Andrew G. Richardson, **Danielle S. Bassett**, Timothy H. Lucas. Novel inter-trial resting state network analysis can reliably predict learning and performance of a simple cognitive reaction time task. American Association of Neurological Surgeons. San Diego, April 13-17, 2019
182. Ari E. Kahn, Christopher W. Lynn, Lia Papadopoulos, & **Danielle S. Bassett**. Human Information Processing in Complex Networks. American Physical Society March Meeting. March 4-8, 2019 in Boston, MA.
183. Abigail N. Poteshman, Lia Papadopoulos, Evelyn Tang, **Danielle S. Bassett**, Lee C. Bassett. Network architecture of energy landscapes in mesoscopic quantum systems. American Physical Society March Meeting. March 4-8, 2019 in Boston, MA.
184. Christopher W. Lynn, Ari E. Kahn, **Danielle S. Bassett**. Structure from noise: Mental errors yield abstract representations of events. American Physical Society March Meeting. March 4-8, 2019 in Boston, MA.
185. Jason Z. Kim, **Danielle S. Bassett**. Design and Control of Finite Conformational Changes in Mechanical Networks. American Physical Society March Meeting. March 4-8, 2019 in Boston, MA.

186. Steven H. Tompson, Emily B. Falk, Matthew Brook O'Donnell, Christopher N. Cascio, Joseph B. Bayer, Jean M. Vettel, **Danielle S. Bassett**. Response Inhibition in Adolescents is Moderated by Brain Connectivity and Social Network Structure. 69th Annual International Communication Association (ICA) Conference. 24-28 May 2019, Washington, D.C.
187. Yoed N. Kenett, Evangelia G. Chryssikou, **Danielle S. Bassett**, & Sharon L. Thompson-Schill. Neural dynamics of generating and evaluating creative and non-creative ideas. Cognitive Neuroscience Society. San Francisco on March 23-26, 2019.
188. Harang Ju, Jason Z. Kim, and **Danielle S. Bassett**. Network topology of neural systems supporting avalanches predicts stimulus propagation and recovery. Cosyne 2019. March 1-3, Lisbon Portugal.
189. Xiaosong He, Ganne Chaitanya, Burcu Ozcan, Ashwini Sharan, **Danielle S. Bassett**, Joseph Tracy, Michael Sperling. Disrupted Basal Ganglia Pathways in Temporal lobe Epilepsy with Focal to Bilateral Seizures. American Epilepsy Society Meeting 2018. November 31-December 3. New Orleans, Louisiana.
190. Zaixu Cui, Jennifer Stiso, Graham L. Baum, Jason Z. Kim, David R. Roalf, Richard F. Betzel, Shi Gu, Zhixin Lu, Cedric H. Xia, Rastko Ciric, Tyler M. Moore, Russell T. Shinohara, Kosha Ruparel, Christos Davatzikos, Fabio Pasqualetti, Raquel E. Gur, Ruben C. Gur, **Danielle S. Bassett**, Theodore D. Satterthwaite. Optimization of Energy State Transition Trajectory Supports the Development of Executive Function During Youth. Human Brain Mapping. June 9-13, 2018. Rome, Italy.
191. Jennifer Stiso, Marie-Constance Corsi, Jean Vettel, Javier Garcia, Fabrizio DeVico Fallani, **Danielle S. Bassett**. Dynamic functional beta-band connectivity during BCI learning drives brain activity to support motor imagery. Human Brain Mapping. June 9-13, 2018. Rome, Italy.
192. Ursula A. Tooley, Allyson P. Mackey, Rastko Ciric, Kosha Ruparel, Tyler M. Moore, Ruben C. Gur, Raquel E. Gur, Theodore D. Satterthwaite, and **Danielle S. Bassett**. Associations Between Neighborhood SES and Functional Brain Network Development. Human Brain Mapping. June 9-13, 2018. Rome, Italy.
193. Eli J. Cornblath, Arian Ashourvan, Jason Z. Kim, Richard F. Betzel, Rastko Ciric, Graham L. Baum, Xiaosong He, Kosha Ruparel, Tyler M. Moore, Ruben C. Gur, Raquel E. Gur, Russell T. Shinohara, David R. Roalf, Theodore D. Satterthwaite, and **Danielle S. Bassett**. Structural support for brain state transitions in healthy controls and chromosome 22q deletion syndrome. Human Brain Mapping. June 9-13, 2018. Rome, Italy.
194. Eli J. Cornblath, John L. Robinson, Virginia M.Y. Lee, John Q. Trojanowski, and **Danielle S. Bassett**. Predicting novel definitions of neurodegenerative disease from CSF protein levels and genotype. Human Brain Mapping. June 9-13, 2018. Rome, Italy.
195. Xia CH, Ma Z, **Bassett DS**, Satterthwaite TD, Shinohara RT, Witten D. Multi-Scale Network Regression: a low-rank and sparse multivariate method to analyze high dimensional brain connectivity data. Human Brain Mapping. June 9-13, 2018. Rome, Italy.
196. Graham L. Baum, Rastko Ciric, Zaixu Cui, David R. Roalf, Richard F. Betzel, Cedric Xia, Tyler M. Moore, Kosha Ruparel, Russell T. Shinohara, Armin Raznahan, Ruben C. Gur, Raquel E. Gur, **Danielle S. Bassett**, and Theodore D. Satterthwaite. Development of structure-function network coupling in youth. Human Brain Mapping. June 9-13, 2018. Rome, Italy.

197. Xiaosong He, Jennifer Stiso, Jason Z. Kim, Zhixin Lu, Eli J. Cornblath, Tommaso Menara, Fabio Pasqualetti, Michael R. Sperling, Joseph I. Tracy, **Danielle S. Bassett**. Characterizing the optimal control energy trajectory in temporal lobe epilepsy. Human Brain Mapping. June 9-13, 2018. Rome, Italy.
198. Adam R. Pines, Matthew Cieslak, Graham L. Baum, Phillip A. Cook, Sage Rush, Kayla Piiwaa, Azeez Adebimpe, Diego Davila, Kristin Murtha, Robert Jirsaraie, Adon F. G. Rosen, Ellen Leibenluft, Russel T. Shinohara, **Danielle S. Bassett**, David R. Roalf, & Theodore D. Satterthwaite. Multi-shell Diffusion Models Confer Greater Developmental Sensitivity and Specificity than Fractional Anisotropy. Human Brain Mapping. June 9-13, 2018. Rome, Italy.
199. Matthew Cieslak, Philip Cook, Scott T. Grafton, **Danielle S. Bassett**, Desmond Oathes, Theodore Satterthwaite. A head motion correction algorithm for arbitrary q space sampling schemes with high b values. Human Brain Mapping. June 9-13, 2018. Rome, Italy.
200. Farnaz Zamani Esfahlani, Maxwell A. Bertolero, **Danielle S. Bassett**, Richard F. Betzel. Space-independent community and hub structure of functional brain networks. Human Brain Mapping. June 9-13, 2018. Rome, Italy.
201. Maxwell A. Bertolero, Graham Baum, Ann E. Sizemore, Theodore D. Satterthwaite, **Danielle S. Bassett**. Brain connectivity is modularly represented in the genome. Human Brain Mapping. June 9-13, 2018. Rome, Italy.
202. Tiziana Cattai, Stefania Colonnese, Marie-Constance Corsi, **Danielle S. Bassett**, Gaetano Scarano, Fabrizio De Vico Fallani. Assessing graph-based metrics of functional brain network for brain-computer interface applications. Human Brain Mapping. June 9-13, 2018. Rome, Italy.
203. Nina von Schwanenflug, Stefan P. Koch, David M. Lydon-Staley, Josephine Heine, Harald Prüss, Friedemann Paul, **Danielle S. Bassett**, Carsten Finke. Alterations of network configurations in patients with anti-NMDA receptor encephalitis. Human Brain Mapping. June 9-13, 2018. Rome, Italy.
204. Maxwell A. Bertolero, Graham Baum, Monica E. Calkins, Ruben C. Gur, Raquel E. Gur, Theodore D. Satterthwaite, **Danielle S. Bassett**. Connector hub symptoms in mental illness predicted by the functional connectivity of connector hubs in brain networks. Human Brain Mapping. June 9-13, 2018. Rome, Italy.
205. Brock J. Glaser, Maxwell Bertolero, **Danielle S. Bassett**, Richard F. Betzel. Correcting for intrinsic connectivity reveals task-specific modular structure and flexible hubs. Network Science Society, 2019. May 27-31, 2019. Burlington, Vermont.
206. Leo Torres, Ann Sizemore Blevins, **Danielle S. Bassett** and Tina Eliassi-Rad. The why, how, and when of representations for complex systems. Network Science Society, 2019. May 27-31, 2019. Burlington, Vermont.
207. Preya Shah, Arian Ashourvan, Fadi Mikhail, Adam Pines, Lohith Kini, Russell T. Shinohara, **Danielle S. Bassett**, Kathryn A. Davis, Brian Litt. Characterizing the role of the structural connectome in seizure dynamics. Workshop on Neurobiology of Epilepsy (WONOEP 2019) 16th -20th June 2019 in Ayutthaya, Thailand.
208. M.-C. Corsi, M. Chavez, D. Schwartz, N. George, L. Hugueville, A.E. Khan, S. Dupont, **D. S. Bassett**, F. De Vico Fallani. Looking for neurophysiological patterns of successful MI-based BCI learning. 8th Graz Brain-Computer Interface Conference 2019, September 16 to September 20, Graz, Austria.

209. Tiziana Cattai, Stefania Colonnese, Marie-Constance Corsi, **Danielle S. Bassett**, Gaetano Scarano, Fabrizio De Vico Fallani. Comparison between connectivity and spectral features for motor-imagery BCI. 8th Graz Brain-Computer Interface Conference 2019, September 16 to September 20, Graz, Austria.
210. Christopher W. Lynn, Ari E. Kahn, and **Danielle S. Bassett**. Structure from Noise: Mental Errors Yield Abstract Representations of Events. Context and Episodic Memory Symposium. May 13th and Tuesday, May 14th, 2019. Philadelphia, PA.
211. Eli J. Cornblath, Arian Ashourvan, Jason Z. Kim, Richard F. Betzel, Rastko Ciric, Graham L. Baum, Xiaosong He, Kosha Ruparel, Tyler M. Moore, Ruben C. Gur, Raquel E. Gur, Russell T. Shinohara, David R. Roalf, Theodore D. Satterthwaite, **Danielle S. Bassett**. Architecture of brain state dynamics at rest and during a working memory task is explained by white matter connectivity and theories of network control. Context and Episodic Memory Symposium. May 13th and Tuesday, May 14th, 2019. Philadelphia, PA.
212. Harang Ju, Jason Z. Kim, **Danielle S. Bassett**. The network topology of neural systems supporting avalanche dynamics predicts stimulus propagation and recovery. Context and Episodic Memory Symposium. May 13th and Tuesday, May 14th, 2019. Philadelphia, PA.
213. Zaixu Cui, Hongming Li, Cedric H. Xia, Azeez Adebimpe, **Danielle S. Bassett**, Graham L. Baum, Matt Cieslak, Christos Davatzikos, Damien A. Fair, Raquel E. Gur, Ruben C. Gur, Bart Larsen, Tyler M. Moore, Armin Raznahan, David R. Roalf, Russell T. Shinohara, Daniel H. Wolf, Yong Fan, & Theodore D. Satterthwaite. Individual Variation in Fronto-Parietal Control Network Topography Supports Executive Function in Youth. Flux Congress. New York, NY. August 30-September 1.
214. Ursula A. Tooley, **Danielle S. Bassett**, Allyson P. Mackey. Functional Brain Network Development During Early Childhood. Flux Congress. New York, NY. August 30-September 1.
215. Ari E. Kahn, Elizabeth Karuza, Jean M. Vettel, **Danielle S. Bassett**. Network constraints on learnability of probabilistic motor sequences. Interdisciplinary Advances in Statistical Learning 2019. San Sebastian, Spain.
216. Christopher W. Lynn, Ari E. Kahn, **Danielle S. Bassett**. Human information processing in complex networks. Interdisciplinary Advances in Statistical Learning 2019. San Sebastian, Spain.
217. Jessica Rose, **Danielle S. Bassett**, and LeAnn Dourte Segan. Analyzing Concept Networks of Student Learning in an Engineering Math Course. BMES October 17-20, 2018 - Atlanta, Georgia
218. Mia Jovanova, Prateekshit Pandey, Matthew Brook O'Donnell, Jacob Parelman, David M. Lydon-Staley, Yoona Kang, **Danielle S. Bassett**, Emily B. Falk. Functional connectivity between salience and self networks predicts message-consistent cognitions and health behavior change. The social and affective neuroscience society. May 2-4, 2019 in Miami Beach.
219. Rosch RE, Borrows D, **Bassett DS**, Meyer MP. Epileptic seizures lead to a loss of near-critical brain organisation in the zebrafish brain. ICTALS 2-5 September 2019, University of Exeter.
220. Julia K. Brynildsen, Carmen Weidler, **Danielle S. Bassett**, and Julie A. Blendy. Functional network connectivity in opiate-naïve and opiate-dependent states. International Narcotics Research Conference. July 7, 2019 to July 11, 2019, New York, New York.
221. Lydon-Staley, D.M., & **Bassett, D.S.** Within-person variability in sensation-seeking during daily life: Associations with alcohol use and self-defined risky behaviors. Society for the Study of Motivation. Washington, DC. May 23 2019.

222. Lydon-Staley, D.M., Zurn, P., & **Bassett, D.S.** Fragile curiosity: Augmentation and blunting of curiosity in daily life and implications for well-being. Association for Psychological Science. Washington, DC. May 23 – 26 2019.
223. Lydon-Staley, D.M., & **Bassett, D.S.** Brain networks underpinning cognitive control support flexible behavior in situ. Cognitive Neuroscience Society. San Francisco, CA. March 23-26 2019.
224. Jason Z. Kim, **Danielle S. Bassett**. Role of Graph Architecture in Controlling Dynamical Networks with Applications to Neural Systems. National Institute of Biomedical Imaging and Bioengineering Training Grantees meeting. Bethesda, DC., June 21-22, 2018. Poster.
225. Dale Zhou, David Lydon-Staley, Perry Zurn, **Danielle S. Bassett**. Network Mechanisms of Curiosity and Information Seeking During Wikipedia Exploration. Sackler Colloquium: The Brain Produces Mind by Modeling 2019. Irvine, California.
226. Abigail N. Poteshman, Lia Papadopoulos, Evelyn Tang, **Danielle S. Bassett**, Lee C. Bassett. Network architecture of energy landscapes in mesoscopic quantum systems. American Physical Society Conferences for Undergraduate Women at The College of New Jersey. January 18-20, 2019 in Trenton, NJ.
227. Harang Ju, Jason Z. Kim, **Danielle S. Bassett**. The network topology of neural systems supporting avalanche dynamics predicts stimulus propagation and recovery. Society for Neuroscience. 2018. San Diego.
228. Harang Ju, Jason Z. Kim, **Danielle S. Bassett**. Network structure of neural systems supporting cascading dynamics predicts stimulus propagation and recovery. Sackler Colloquia “Brain Produces Mind by Modeling”. 2019. Irvine.
229. Leo Torres and Ann Sizemore Blevins, **Danielle S. Bassett**, Tina Eliassi-Rad. The why, how, and when of representations for complex systems. NetSci 2019. Burlington, VT. May 27-31 2019
230. Erin G. Teich, L. Galloway, Paulo E. Arratia, **Danielle S. Bassett**. Structural and network characterization of two-dimensional jammed systems under oscillatory shear. Granular and Particulate Networks. Max Planck Institute for the Physics of Complex Systems, Dresden, Germany. July 8 - July 10, 2019.
231. Ari E. Kahn, Elisabeth A. Karuza, Jean M. Vettel, **Danielle S. Bassett**. Network constraints on learnability of probabilistic motor sequences. SIAM Workshop on Network Science, Portland, OR. July 12-13, 2018.
232. Ari E. Kahn, Elisabeth A. Karuza, Jean M. Vettel, **Danielle S. Bassett**. Network constraints on learnability of probabilistic motor sequences. Sackler Colloquium “Brain Produces mind by modeling”, Irvine, CA. May 1-3, 2019.
233. Eli Cornblath, Rastko Ciric, Graham Baum, Kosha Ruparel, Tyler Moore, Ruben Gur, Raquel Gur, David Roalf, Theodore Satterthwaite, **Danielle S. Bassett**. Structural support for brain state transitions that contribute to working memory. SfN 2018, San Diego, CA. November 3-7, 2018.
234. Cornblath, E.J., Robinson, J.L., Trojanowski, J.Q., Lee, V.M.Y., & **Bassett, D.S.**, 2019. Predicting and defining transdiagnostic categories of neurodegenerative disease. 2019 Mahoney Institute for Neurosciences Symposium. Philadelphia, PA. April 3, 2019.

235. Cedric Huchuan Xia, Zongming Ma, Rastko Ciric, Shi Gu, Richard F. Betzel, Antonia N. Kaczurkin, Monica E. Calkins, Philip A. Cook, Angel García de la Garza, Simon N. Vandekar, Zaixu Cui, Tyler M. Moore, David R. Roalf, Kosha Ruparel, Daniel H. Wolf, Christos Davatzikos, Ruben C. Gur, Raquel E. Gur, Russell T. Shinohara, **Danielle S. Bassett** & Theodore D. Satterthwaite, Linked dimensions of psychopathology and functional brain networks, Society of Biological Psychiatry 2019, Chicago, IL
236. Xiaolong Zhang, Anais Harneit, Urs Braun, Zhenxiang Zang, Lena Geiger, Richard Betzel, Junfang Chen, Janina Schweiger, Kristina Otto, Jonathan Rochus Reinwald, Emanuel Schwarz, Dusan Hirjak, Andreas Meyer-Lindenberg, **Danielle S. Bassett**, Heike Tost. Simple models identify biological mechanisms of altered structural network in schizophrenia. Human Brain Mapping. June 9-13, 2018. Rome, Italy.
237. Brittany Scheid, Arjun Shankar, John M. Bernabei, Arian Ashourvan, Andy Revell, Jessica Hermann, Ryan Archer, Jacqueline A. Boccanfuso, Kathryn A. Davis, Danielle Becker, **Danielle S. Bassett**, Brian Litt. Controllability of Brain Networks in Patients Receiving Responsive Neurostimulation. ICTALS 2-5 September 2019, University of Exeter.
238. Arun Mahadevan, Ursula Tooley, Maxwell Bertolero, Allyson Mackey, **Danielle S. Bassett**. Sensitivity of functional connectivity measures to motion artifact in resting-state fMRI data. Organization for Human Brain Mapping. Montreal, Canada June 26-30, 2020.
239. Zaixu Cui, Hongming Li, Cedric H. Xia, Bart Larsen, Azeez Adebimpe, Graham L. Baum, Matt Cieslak, Raquel E. Gur, Ruben C. Gur, Tyler M. Moore, Desmond J. Oathes, Aaron Alexander-Bloch, Armin Raznahan, David R. Roalf, Russell T. Shinohara, Daniel H. Wolf, Christos Davatzikos, **Danielle S. Bassett**, Damien A. Fair, Yong Fan, & Theodore D. Satterthwaite. Individual Variation in Functional Topography of Association Networks in Youth. Organization for Human Brain Mapping. Montreal, Canada June 26-30, 2020.
240. Jennifer Stiso, Lorenzo Caciagli, Kathryn A. Davis, Timothy H. Lucas, **Danielle S. Bassett**. Effects of interictal epileptiform discharges on electrocorticography-derived functional connectivity. Organization for Human Brain Mapping. Montreal, Canada June 26-30, 2020.
241. Dale Zhou, Christopher W. Lynn, Zaixu Cui, Rastko Ciric, Graham L. Baum, Armin Raznahan, Tyler Moore, David Roalf, John Detre, Ruben C. Gur, Raquel E. Gur, Theodore D. Satterthwaite, and **Danielle S. Bassett**. Efficient Coding in the Economics of Human Connectomics. Organization for Human Brain Mapping. Montreal, Canada June 26-30, 2020.
242. Lorenzo Caciagli, Casey Paquola, Xiaosong He, Maria Centeno, Christian Vollmar, Karin Trimmel, Pamela J. Thompson, Sallie Baxendale, Gavin P. Winston, John S. Duncan, **Danielle S. Bassett**, Matthias J. Koepp, and Boris C. Bernhardt. Multiscale investigation of cognitive dysfunction in focal epilepsies: a task-based fMRI analysis. Organization for Human Brain Mapping. Montreal, Canada June 26-30, 2020.
243. Lorenzo Caciagli, Xiaosong He, Urs Braun, Britta Wandschneider, Sallie Baxendale, Pamela J. Thompson, John S. Duncan, Matthias J. Koepp, **Danielle S. Bassett**. Tracking network mechanisms of executive dysfunction in epilepsy: a task-based dynamic fMRI analysis. Organization for Human Brain Mapping. Montreal, Canada June 26-30, 2020.
244. Xiaosong He, Jennifer Stiso, Lorenzo Caciagli, Jason Z. Kim, Zhixin Lu, Tommaso Menara, Fabio Pasqualetti, Michael R. Sperling, Joseph I. Tracy, **Danielle S. Bassett**. Optimal control energy landscape tracks metabolic underpinnings in temporal lobe epilepsy. Organization for Human Brain Mapping. Montreal, Canada June 26-30, 2020.

245. Matthew Cieslak, Philip A. Cook, Thijs Dhollander, Fang-Cheng Yeh, Eleftherios Garyfallidis, Mark A. Elliott, Valerie Sydnor, Josiane Bourque, Xiaosong He, Will Foran, Laura Cabral, Beatriz Luna, Adam Pines, David Roalf, John Detre, Max Kelz, Jean M. Vettel, Barry Giesbrecht, Desmond J. Oathes, **Danielle S. Bassett**, Scott T. Grafton, Theodore D. Satterthwaite. QSIPrep: Robust and unified workflows for preprocessing and reconstructing diffusion MRI. Organization for Human Brain Mapping. Montreal, Canada June 26-30, 2020.
246. Ursula A. Tooley, **Danielle S. Bassett**, & Allyson P. Mackey. Functional network community structure in development. Organization for Human Brain Mapping. Montreal, Canada June 26-30, 2020.
247. Linden Parkes, Tyler M. Moore, Monica E. Calkins, David R. Roalf, Daniel H. Wolf, Ruben C. Gur, Raquel E. Gur, Theodore D. Satterthwaite, **Danielle S. Bassett**. Dimensional psychopathology phenotypes explain individuals' unique deviations from normative neurodevelopment in brain structure. Organization for Human Brain Mapping. Montreal, Canada June 26-30, 2020.
248. Adam R. Pines, Bart Larsen, Zaixu Cui, Azeez Adebimpe, Aaron F. Alexander-Bloch, Ruben C. Gura, Raquel E. Gur, **Danielle S. Bassett**, Theodore D. Satterthwaite. Divergent Patterns of Apparent Brain Maturation Across Functional Network Scales. Organization for Human Brain Mapping. Montreal, Canada June 26-30, 2020.
249. Lorenzo Caciagli, Casey Paquola, Maria Centeno, Christian Vollmar, Xiaosong He, Karin Trimmel, Pamela J. Thompson, Sallie Baxendale, Gavin P. Winston, John S. Duncan, **Danielle S. Bassett**,* Matthias J. Koeppe* and Boris C. Bernhardt*. Multiscale investigation of cognitive dysfunction in frontal lobe epilepsy: neuropsychometry, task-related fMRI, and topographic connectome profiling. American Epilepsy Society 2019 Annual Meeting, Baltimore, December 6-10, 2019.
250. Xiaosong He, Lorenzo Caciagli, Michael R. Sperling, **Danielle S. Bassett**, Joseph I. Tracy. Postoperative Reorganization of Modular Architecture in Functional Brain Networks Informs Surgical Outcome. American Epilepsy Society Annual Meeting, 6-10 Dec 2019, Baltimore, MD.
251. Eli J. Cornblath, John L. Robinson, John Q. Trojanowski, Virginia M.Y. Lee, **Danielle S. Bassett**. Defining and predicting transdiagnostic categories of neurodegenerative disease. Organization for Human Brain Mapping. Rome, Italy June 9-13, 2019.
252. Eli J. Cornblath, Arian Ashourvan, Jason Z. Kim, Richard F. Betzel, Rastko Ciric, Graham L. Baum, Xiaosong He, Kosha Ruparel, Tyler M. Moore, Ruben C. Gur, Raquel E. Gur, Russell T. Shinohara, Theodore D. Satterthwaite, & **Danielle S. Bassett**. Brain state transitions in healthy controls and chromosome 22q deletion syndrome. Organization for Human Brain Mapping. Rome, Italy June 9-13, 2019.
253. Eli J. Cornblath, John L. Robinson, John Q. Trojanowski, Virginia M.Y. Lee, **Danielle S. Bassett**. Defining and predicting transdiagnostic categories of neurodegenerative disease. Center for Neurodegenerative Disease Annual Marian S. Ware Retreat. Philadelphia, PA November 6, 2019.
254. Eli J. Cornblath, Ashourvan A., Jason Z. Kim, Richard F. Betzel, Rastko Ciric, Graham L. Baum, Xiaosong He, Kosha Ruparel, Tyler M. Moore, Ruben C. Gur, Raquel E. Gur, Russell T. Shinohara, David R. Roalf, Theodore D. Satterthwaite, and **Danielle S. Bassett**. Transitions to default mode and frontoparietal network activation states are associated with age and working memory performance. Society of Biological Psychiatry. New York, New York May 1, 2020.
255. Eli J. Cornblath, Xiaosong He, Kosha Ruparel, Rastko Ciric, Graham L. Baum, Tyler M. Moore, Ruben C. Gur, Donna M. McDonald-McGinn, Beverly Emanuel, Russell T. Shinohara, Theodore D.

Satterthwaite, David R. Roalf, Raquel E. Gur, and **Danielle S. Bassett**. Altered functional brain dynamics during facial affect processing in chromosome 22q11.2 deletion syndrome. Society of Biological Psychiatry. New York, New York May 1, 2020.

256. Eli J. Cornblath, Xiaosong He, Kosha Ruparel, Rastko Ciric, Graham L. Baum, Tyler M. Moore, Ruben C. Gur, Donna M. McDonald-McGinn, Beverly Emanuel, Russell T. Shinohara, Theodore D. Satterthwaite, David R. Roalf, Raquel E. Gur, and **Danielle S. Bassett**. Altered functional brain dynamics during facial affect processing in chromosome 22q11.2 deletion syndrome. Whistler Brain Conference. Whistler, Canada March 1-4, 2020.

257. Eli J. Cornblath, Ashourvan A., Jason Z. Kim, Richard F. Betzel, Rastko Ciric, Graham L. Baum, Xiaosong He, Kosha Ruparel, Tyler M. Moore, Ruben C. Gur, Raquel E. Gur, Russell T. Shinohara, David R. Roalf, Theodore D. Satterthwaite, and **Danielle S. Bassett**. Temporal sequences of brain activity at rest are constrained by white matter structure and modulated by cognitive demands. Whistler Brain Conference. Whistler, Canada March 1-4, 2020.

258. David M. Lydon-Staley, Perry Zurn, & **Danielle S. Bassett**. Curiosity and information-seeking in the laboratory and in situ across seconds, days, and Millenia. Association for Psychological Science. Chicago, IL May 21-24, 2020. (Conference canceled).

259. David M. Lydon-Staley, Adam M. Leventhal, Megan M. Piper, Robert A. Schnoll & **Danielle S. Bassett**. More than the sum of its parts: A network perspective on tobacco withdrawal. Society of Behavioral Medicine. San Francisco, CA April 1-4 2020. (Conference cancelled).

260. Tooley, U. A., Park, A.T., Leonard, J.A., Boroshok, A.L., **Bassett, D.S.**, & Mackey, A.P. Functional network development during early childhood. Organization for Human Brain Mapping Equinox, Twitter conference. March 20, 2020.

261. Tooley, U. A., Park, A.T., Leonard, J.A., Boroshok, A.L., **Bassett, D.S.**, & Mackey, A.P. Functional network development in early childhood. Flux Congress: New York, NY. August 30- September 1, 2019.

262. Richard Rosch, Dominic Burrows, Éric Samarut, **Danielle S. Bassett**, Martin P. Meyer. Epileptic seizures lead to a loss of near critical brain organization in the zebrafish brain. BrainModes 11-13 December, Pokhara, Nepal.

263. Richard Rosch, Dominic Burrows, **Danielle S. Bassett**, Martin P. Meyer. Epileptic seizures lead to a loss of near critical brain organization in the zebrafish brain. ICTALS 2-5 September 2019, University of Exeter, United Kingdom.

264. Richard Rosch, Dominic Burrows, **Danielle S. Bassett**, Martin P. Meyer. Brain networks in epileptic seizures – insights from zebrafish. Federation of Neuroscience Societies Regional Meeting 10-13 July 2019, Belgrade, Serbia.

265. Dominic Burrows, Richard Rosch, **Danielle S. Bassett**, Martin P. Meyer. PTZ-induced seizures lead to the emergence of near-critical brain organization in the zebrafish brain. Park City Epilepsy Meeting, 6-8 October 2019, Park City UT.

266. Ari E. Kahn, Elisabeth A. Karuza, Jean M. Vettel, **Danielle S. Bassett**. Network Constraints on Learnability of Probabilistic Motor Sequences. Interdisciplinary Advances in Statistical Learning. June 27–29, 2019, San Sebastian, Spain.

267. Linden Parkes, Daniela Zoller, Urs Braun, Petra Vertes, Fabio Pasqualetti, **Danielle S. Bassett**. Network Control Theory: Recent Advances, Current Limitations, and Future Directions. Organization for Human Brain Mapping. Montreal, Canada June 26-30, 2020.

268. Jason Z. Kim, Zhixin Lu, **Danielle S. Bassett**. Recurrent Neural Networks Learn Simple Computations on Complex time Series through Examples. American Physical Society March Meeting. March 2-6, 2020 in Denver, CO.
269. Lindsay M. Smith, Harang Ju, **Danielle S. Bassett**. Development of control in brain networks over temporal and spatial scales using graph models. American Physical Society March Meeting. March 2-6, 2020 in Denver, CO.
270. William Qian, Lia Papadopoulos, Zhixin Lu, **Danielle S. Bassett**. Irreversible Rearrangement of System Dynamics Induced by Rewiring Networks of Kuramoto Oscillators with Inertia. American Physical Society March Meeting. March 2-6, 2020 in Denver, CO.
271. Erin G. Teich, K.L. Galloway, Paulo E. Arratia, **Danielle S. Bassett**. Mesoscopic network characterization of 2D jammed systems under oscillatory shear. Granular and Particulate Networks, Max Planck Institute for the Physics of Complex Systems. Dresden, Germany July 8-10 2019.
272. Erin G. Teich, K.L. Galloway, Paulo E. Arratia, **Danielle S. Bassett**. Local order and structural rearrangement in two-dimensional jammed systems under oscillatory shear. American Physical Society Virtual March Meeting. March 2-6, 2020.
273. Ann Sizemore Blevins & **Danielle S. Bassett**. On the reorderability of node-filtered order complexes. NetSci 2019 Poster session (Burlington, VT) May 29, 2020.
274. Pulkit Khandelwal, Long Xie, **Danielle S. Bassett**, Robin de Flores, David A. Wolk, Paul A. Yushkevich, and Sandhitsu R. Das. Longitudinal Network Connectivity Measurements in Medial Temporal Lobe subregions discriminate Preclinical Alzheimer's Disease patients from Amyloid-Beta Negative controls. Alzheimer's Association International Conference. 2020. Amsterdam, Netherlands.
275. Michael X. Henderson, Eli J. Cornblath, Howard L. Li, Lakshmi Changolkar, Bin Zhang, Hannah J. Brown, Ronald J. Gathagan, Modupe F. Olufemi, **Danielle S. Bassett**, John Q. Trojanowski, Virginia M.Y. Lee. Tau pathology spreads between vulnerable and anatomically-connected regions of the brain and is predicted by network modeling. Cold Spring Harbor. Neurodegenerative Diseases: Biology & Therapeutics. December 2 - 4, 2020.

INVITED LECTURES & PRESENTATIONS:

Postponed:

Nagle Lecture	Mar 12, 2020	Tampa, FL
Eberly College of Science 2020 Commencement	May 9, 2020	State College, PA

Past:

<i>American University (Guest Lecture)</i>	November 2, 2020	Washington, DC (virtual)
<i>Technology in Psychiatry 2020</i>	October 29, 2020	Belmont, MA (virtual)
<i>Johns Hopkins, BME Department</i>	October 23, 2020	Baltimore, MD (virtual)
<i>UC Davis, Soma Seminar</i>	October 15, 2020	Davis, CA (virtual)
<i>Dartmouth College, Psychology</i>	October 9, 2020	Hanover, VT (virtual)
<i>Society for Women in Physics at Penn</i>	October 2, 2020	Philadelphia, PA (virtual)
<i>Army Research Lab, Soldier Center</i>	October 1, 2020	Natick, MA (virtual)
<i>Harvard University WAM seminar</i>	September 24, 2020	Cambridge, MA (virtual)
<i>Dartmouth College, Innovators</i>	September 24, 2020	Hanover, VT (virtual)

<i>Network Science Society Annual Conference</i>	September 18, 2020	Rome, Italy (virtual)
<i>Brown University</i>	September 4, 2020	Providence, RI (virtual)
<i>University of Colorado</i>	August 19, 2020	Boulder, CO (virtual)
<i>Max Planck Institute for Human Development</i>	July 16, 2020	Berlin, Germany (virtual)
<i>Imperial College London</i>	June 25, 2020	London, UK (virtual)
<i>UConn BIRC Seminar II</i>	June 2, 2020	Storrs, CT (virtual)
<i>UConn BIRC Seminar</i>	May 21, 2020	Storrs, CT (virtual)
<i>MindCore</i>	May 8, 2020	Philadelphia, PA (virtual)
<i>Santa Fe Institute</i>	April 29, 2020	Santa Fe, NM (virtual)
<i>Society for Biological Psychiatry</i>	April 29, 2020	New York, NY (virtual)
<i>Cognitive Neuroscience Society</i>	April 25, 2020	Boston, MA (virtual)
<i>NeuroMatch</i>	March 31, 2020	Global (virtual)
<i>Cosyne 2020</i>	March 2, 2020	Breckenridge, CO (virtual)
<i>University of Alabama</i>	Feb 14, 2020	Tuscaloosa, AL(virtual)
<i>University Colorado, Biofrontiers Institute</i>	Feb 4, 2020	Boulder, CO
<i>Carnegie Mellon Univ & Pittsburgh Univ</i>	Jan 25, 2020	Pittsburgh, PA
Center for Philosophy of Science		
<i>University College London</i>	Jan 16, 2020	London, UK
<i>Duke University</i>	Jan 9, 2020	Durham, NC
<i>SFI- NSF Convergence</i>	Dec 4, 2019	Alexandria, VA
<i>American Philosophical Society</i>	Nov 9, 2019	Philadelphia, PA
<i>NIMH Center for Multimodal Neuroimaging</i>	Nov 1, 2019	Bethesda, MD
<i>Allen Brain Institute</i>	Oct 30, 2019	Seattle, WA
<i>UC Boulder, Physics Colloquium</i>	Oct 2, 2019	Boulder, CO
<i>CMU Forum on Frontiers in Biomedical Eng.</i>	September 20, 2019	Pittsburgh, PA
<i>Libi Seminar</i>	September 12, 2019	Philadelphia, PA
<i>NIMH DTR Computational Retreat</i>	September 9, 2019	Rockville, MD
<i>Trinity College Dublin</i>	August 28, 2019	Dublin, Ireland
<i>University of Cambridge</i>	August 29, 2019	Cambridge, UK
<i>Kings College London</i>	August 30, 2019	London, UK
<i>University College London, Gatsby</i>	August 30, 2019	London, UK
<i>American Controls Conference</i>	July 11, 2019	Philadelphia, PA
<i>Summer Institute in Cognitive Neuroscience</i>	June 26, 2019	Santa Barbara, CA
<i>Organization of Human Brain Mapping Keynote</i>	June 12, 2019	Rome, Italy
<i>Control Processes Conference</i>	May 16-18, 2019	Providence, RI
<i>SIAM DS19 Keynote</i>	May 23, 2019	Snowbird, UT
<i>Sackler Colloquium</i>	May 3, 2019	Los Angeles, CA
<i>NIH Computational Neuroscience Symposium</i>	April 19, 2019	Bethesda, MD
<i>IEEE EMBS Neural Engineering Conference</i>	Mar 22, 2019	Los Angeles, CA
<i>Santa Fe Institute Colloquium</i>	Feb 12, 2019	Santa Fe, NM
<i>Santa Fe Institute Community Lecture</i>	Feb 12, 2019	Santa Fe, NM
<i>Hospital of the University of Pennsylvania</i>	Feb 8, 2019	Philadelphia, PA
<i>John Hopkins Applied Physics Laboratory</i>	Feb 7, 2019	Baltimore, MD
<i>Stanford University</i>	Jan 28, 2019	Palo Alto, CA
<i>Theory of Biological Systems, Emory University</i>	Jan 18, 2019	Atlanta, GA
<i>Curiosity Symposium</i>	Dec 8, 2018	Philadelphia, PA
<i>Duke University</i>	Dec 7, 2018	Raleigh, NC
<i>Georgia Tech – Emory</i>	Nov 28, 2018	Atlanta, GA
<i>Department of History, Penn</i>	Nov 20, 2018	Philadelphia, PA
<i>Computational Psychiatry Minisymposium</i>	Nov 3, 2018	San Diego, CA
<i>NIDA-NIAAA MiniConvention</i>	Nov 2, 2018	San Diego, CA
<i>UC San Diego, Data Science Institute</i>	Nov 1, 2018	San Deigo, CA
<i>John D. and Catherine T. MacArthur Forum</i>	Oct 11, 2018	Chicago, IL
<i>Motor Brewing Company</i>	Oct 10, 2018	Chicago, IL
<i>Cognitive Computational Neuroscience</i>	Sept 8, 2018	Philadelphia, PA
<i>Schrodinger at 75 – The future of biology</i>	Sept 5, 2018	Dublin, Ireland

<i>Lockheed Martin</i>	Aug16, 2018	Cherry Hill, NJ
<i>SIAM Annual Meeting</i>	July 12, 2018	Portland, Oregon
<i>The Cognitive Neurosciences Summer Institute</i>	July 7, 2018	Tahoe, NV
<i>Neuroergonomics</i>	June 28, 2018	Philadelphia, PA
<i>NetSci</i>	June 14, 2018	Paris, France
<i>Center for Neural Modulation of Depression & Stress</i>	June 4, 2018	Philadelphia, PA
<i>Analysis and Interpretation of Connectomes</i>	May 21, 2018	Ashburn, VA
<i>MIT Media Lab</i>	May 15, 2018	Boston, MA
<i>University of California Berkeley</i>	May 3, 2018	Berkeley, CA
<i>Yale University</i>	April 23, 2018	New Haven, CN
<i>Penn BBB109 Guest Lecture</i>	April 18, 2018	Philadelphia, PA
<i>Penn CBICA Guest Lecture</i>	April 18, 2018	Philadelphia, PA
<i>Quaker Days BFS Faculty Spotlight Lecture</i>	April 18, 2018	Philadelphia, PA
<i>Cerebral Cortex 3.0: Complexity and Computation</i>	April 8, 2018	Frankfurt, Germany
<i>Neuropsychological Society</i>	Mar 28, 2018	Philadelphia, PA
<i>University College London</i>	Mar 20, 2018	London, UK
<i>Royal Society in Chicheley Hall</i>	Mar 21, 2018	Buckinghamshire, UK
<i>LIBi Symposium</i>	Mar 12, 2018	Philadelphia, PA
<i>CoSyne</i>	Mar 6, 2018	Denver, CO
<i>American Physical Society</i>	Mar 7, 2018	Los Angeles, CA
<i>Haverford College</i>	Feb 28, 2018	Haverford, PA
<i>Columbia University</i>	Feb 27, 2018	New York NY
<i>NIMBIOS</i>	Feb 22, 2018	Knoxville, TN
<i>Center for the Neural Basis of Cognition</i>	Feb 1, 2018	Pittsburgh, PA
<i>Aix Marseille University</i>	Jan 26, 2018	Marseille, France
<i>Esther Klein Gallery</i>	Jan 19, 2018	Philadelphia, PA
<i>Pearlman School of Medicine, Dept. of Neurology</i>	Jan 17, 2018	Philadelphia, PA
<i>Mission Critical Teams</i>	Jan 12, 2018	Philadelphia, PA
<i>Pearlman School of Medicine, Dept. of Radiology</i>	Dec 19, 2017	Philadelphia, PA
<i>Harvard University</i>	Dec 12, 2017	Boston, MA
<i>Computational Neuroscience Initiative</i>	Dec 5, 2017	Philadelphia, PA
<i>Boston Univ BME Distinguished Seminar</i>	Dec 1, 2017	Boston, MA
<i>Network Neuroscience of Curiosity</i>	Nov 17, 2017	Philadelphia, PA
<i>Computational Psychiatry Workshop (SfN)</i>	Nov 10, 2017	Washington, DC
<i>23rd Annual Shih-I Pai Lecture, U Maryland</i>	Oct 17, 2017	College Park, MD
<i>IEEE TechEthics</i>	Oct 13, 2017	Washington, DC
<i>Conference on Complex Systems</i>	Sept 21, 2017	Cancun, Mexico
<i>ESAP Guest Lecture</i>	July 11, 2017	Philadelphia, PA
<i>Summer School on Theoretical Biophysics</i>	July 7, 2017	Cargese, Corsica
<i>OHBM "Individual Differences in Networks"</i>	June 27, 2017	Vancouver, CA
<i>OHBM Skeptics Workshop</i>	June 25, 2017	Vancouver, CA
<i>NetSci Keynote</i>	June 21, 2017	Indianapolis, IN
<i>NetSci Satellite, Network Neuroscience Plenary</i>	June 20, 2017	Indianapolis, IN
<i>Princeton University</i>	June 16, 2017	Princeton, NJ
<i>Interdisciplinary Mind-Brain Summer Workshop</i>	June 15, 2017	Philadelphia, PA
<i>Intl Conf on Mathematical Neuroscience</i>	May 31, 2017	Boulder, CO
<i>NIH Director's Lectureship</i>	May 16, 2017	Bethesda, MD
<i>Keynote at IRTG 2150</i>	April 26, 2017	Philadelphia, PA
<i>NU Network Science Institute, Distinguished</i>	April 24, 2017	Boston, MA
<i>Drexel University Biomed Seminar</i>	April 19, 2017	Philadelphia, PA
<i>ASEF Distinguished Spring Speaker</i>	April 13, 2017	Philadelphia, PA
<i>Penn Biostats Guest Lecture</i>	April 12, 2017	Philadelphia, PA
<i>Penn CBICA Guest Lecture</i>	April 12, 2017	Philadelphia, PA
<i>Penn BBB109 Guest Lecture</i>	April 12, 2017	Philadelphia, PA
<i>Wiring the Brain</i>	April 5, 2017	Cold Spring Harbor
<i>Cognitive Neuroscience Society</i>	Mar 25, 2017	San Francisco, CA

<i>Council for Women of Penn Psychology</i>	March 21, 2017	Philadelphia, PA
<i>Keystone Connectomics Symposium</i>	Mar 8, 2017	Santa Fe, NM
<i>Penn's Academy Weekend</i>	Mar 4, 2017	West Palm Beach, FL
<i>Psychiatry Grand Rounds HUP</i>	Mar 2, 2017	Philadelphia, PA
<i>Thomas Jefferson, Neurology Grand Rounds</i>	Feb 24, 2017	Philadelphia, PA
<i>Carnegie Mellon Philosophy Department</i>	Feb 13, 2017	Pittsburgh, PA
<i>Princeton University Neuroscience Institute</i>	Feb 16, 2017	Princeton, NJ
<i>Imagination Institute, Appl Math & Eng Retreat</i>	Feb 4, 2017	Philadelphia, PA
<i>GABE BETA Day</i>	Jan 27, 2017	Philadelphia, PA
<i>Center for Neuroengineering and Therapeutics</i>	Jan 27, 2017	Philadelphia, PA
<i>NYU Swartz Lecture</i>	Jan 20, 2017	New York NY
<i>Alpine Brain Imaging Meeting</i>	Jan 8 2017	Geneva, Switzerland
<i>Dynamics Days</i>	Jan 4, 2017	Silver Spring, MD
<i>Isaac Newton Institute, "Dynamic Networks"</i>	Dec 12, 2016	Cambridge, UK
<i>Curiosity Symposium</i>	Dec 9, 2016	Philadelphia, PA
<i>IEEE Global SIP Plenary</i>	Dec 8, 2016	Arlington, VA
<i>UC Irvine Distinguished Lecture</i>	Dec 5, 2016	Irvine, CA
<i>American College of Neuropsychopharmacology</i>	Dec 6, 2016	Hollywood, FL
<i>Center for Autism Research</i>	Nov 14, 2016	Philadelphia, PA
<i>SFN Short Course on Neural Data Science</i>	Nov 11, 2016	San Diego, CA
<i>Control Processes Conference</i>	Nov 10, 2016	San Diego, CA
<i>International Workshop on Advances in ECoG</i>	Nov 10, 2016	San Diego, CA
<i>Haverford College</i>	Nov 2, 2016	Haverford, PA
<i>NYE ECE Colloquium</i>	Oct 27, 2016	New York NY
<i>Hampshire College</i>	Oct 17, 2016	Amherst, MA
<i>Bernstein Computational Neuroscience Conference</i>	Sept 23, 2016	Berlin, Germany
<i>Central Institute of Mental Health</i>	Sept 22, 2016	Mannheim, Germany
<i>Defense Science Board 60th Anniversary</i>	Sept 20, 2016	Pentagon City, DC
<i>Department of Physics, UPenn</i>	Sept 14, 2016	Philadelphia, PA
<i>FLUX: Developmental Cognitive Neuroscience</i>	Sept 8, 2016	St Louis, MI
<i>IEEE-EMBS: Plenary</i>	Aug 16, 2016	Orlando, FL
<i>ESAP Guest Lecture</i>	July 6, 2016	Philadelphia, PA
<i>National Science Foundation</i>	June 30, 2016	Arlington, VA
<i>Penn Network Visualization Program</i>	June 21, 2016	Philadelphia, PA
<i>Office of Naval Research</i>	June 13, 2016	Amherst, MA
<i>Duke University</i>	June 1, 2016	Raleigh, NC
<i>IT Staff Convention</i>	May 20, 2016	Philadelphia, PA
<i>National Institutes of Health</i>	May 6, 2016	Bethesda, MD
<i>Temple University</i>	April 20, 2016	Philadelphia, PA
<i>Penn BBB109 Guest Lecture</i>	April 19, 2016	Philadelphia, PA
<i>Westtown: Shoemaker Lecture</i>	April 17, 2016	West Chester, PA
<i>Army Research Laboratory</i>	April 12, 2016	Aberdeen, MD
<i>MBI: Workshop on Control and Observability of Network Dynamics</i>	April 11, 2016	Chicago, IL
<i>Royal Society: Applying Computational Modeling to Clinical Neuroscience</i>	April 7, 2016	London, UK
<i>British Applied Mathematics Conference: Plenary</i>	April 6, 2016	Oxford, UK
<i>Washington University Physics Colloquium</i>	Mar 30, 2016	St Louis, MI
<i>MBI: Workshop on Generalized Network Structures and Dynamics</i>	Mar 23, 2016	Columbus, OH
<i>GEARS Day</i>	Mar 19, 2016	Philadelphia, PA
<i>3rd Biennial Whistler Workshop on Brain Function</i>	Mar 6, 2016	Whistler BC, Canada
<i>Annenberg Public Policy Center</i>	Feb 16, 2016	Philadelphia, PA
<i>Department of Economics, U Pennsylvania</i>	Feb 19, 2016	Philadelphia, PA
<i>Weill Cornell Medical College</i>	Feb 18, 2016	New York, NY
<i>Center for Curiosity</i>	Feb 17, 2016	Philadelphia, PA

<i>Walden School</i>	Feb 10, 2016	Media, PA
<i>Department of Physics, U Pennsylvania</i>	Jan 27, 2016	Philadelphia, PA
<i>Rice University Bioengineering Department</i>	Jan 19, 2016	Houston, TX
<i>Yale Institute for Network Science</i>	Dec 16, 2015	New Haven, CT
<i>Amer. Epilepsy Society Merritt-Putnam Symposium</i>	Dec 5, 2015	Philadelphia, PA
<i>Engaging Minds</i>	Dec 4, 2015	New York, NY
<i>University of Florida - IEEE-EMBS</i>	Nov 30, 2015	Gainesville, FL
Distinguished Early Career Lecture		
<i>Hospital University of Pennsylvania</i>	Nov 24, 2015	Philadelphia, PA
<i>Neuroscience Public Lecture</i>	Nov 19, 2015	Philadelphia, PA
<i>The Quadrangle</i>	Nov 17, 2015	Haverford, PA
<i>Children's Hospital of Philadelphia</i>	Nov 5, 2015	Philadelphia, PA
<i>University of Chicago</i>	Oct 22, 2015	Chicago, IL
<i>Cell Symposia: Engineering the Brain</i>	Oct 15, 2015	Chicago, IL
<i>SfN Symposium: Brain Stimulation Based Neural</i>	Oct 16, 2015	Chicago, IL
Circuits Modeling		
<i>New Jersey Institute of Technology</i>	Sept 25, 2015	Newark, NJ
<i>NecSys</i>	Sept 10, 2015	Philadelphia, PA
<i>Janelia</i>	August 24, 2015	Ashburn, VA
<i>IEEE Philadelphia Chapter</i>	August 10, 2015	Philadelphia, PA
<i>MidAtlantic Soft Materials, University of Maryland</i>	July 29, 2015	College Park, MD
<i>GNSI at Arcadia University</i>	July 8, 2015	Glenside, PA
<i>American Control Conference</i>	July 1, 2015	Chicago, IL
<i>Summer Institute in Cognitive Neuroscience</i>	June 25, 2015	Santa Barbara, CA
<i>Bryn Mawr</i>	June 8, 2015	Bryn Mawr, PA
<i>Defects, Deformations, and Diagnosis (PICSL)</i>	May 28, 2015	Philadelphia, PA
<i>New York University</i>	May 12, 2015	New York, NY
<i>SIAM NetSci – Invited Talk</i>	May 16, 2015	Snowbird, UT
<i>SIAM NetSci</i>	May 17, 2015	Snowbird, UT
<i>Institute for Advanced Study</i>	April 18, 2015	Princeton, NJ
<i>International Symposium on Biomedical Imaging</i>	April 16, 2015	New York, NY
<i>Dartmouth College, Thayer School of Engineering</i>	April 2, 2015	Hanover, NH
<i>Philadelphia Neurological Society:</i>	Feb 19, 2015	Philadelphia, PA
<i>NSF SBE Fall Advisory Committee Meeting</i>	Oct 31, 2014	Alexandria, VA
<i>Indiana University Bloomington</i>	Sept 8, 2014	Bloomington, IN
<i>University of Pennsylvania - IRCS Seminar</i>	Sept 19, 2014	Philadelphia, PA
<i>Bernstein Center for Computational Neuroscience</i>	Jun 11, 2014	Berlin, Germany
<i>NetSci – Satellite Workshop</i>	Jun 3, 2014	Berkeley, CA
<i>2014 (SIB) & Vision Sciences TGs Retreat</i>	Jun 4, 2014	Philadelphia, PA
<i>NSF Workshop on QTLMD</i>	May 9, 2014	Arlington, VA
<i>University of Pennsylvania</i>	April 24, 2014	Philadelphia, PA
<i>University of Pennsylvania - MINS</i>	April 2, 2014	Philadelphia, PA
<i>Cold Spring Harbor Laboratory</i>	April 6, 2014	CSH, NY
<i>CoSyne - Discovering Structure in Neural Data</i>	March 4, 2014	Snowbird, UT
<i>Rochester Institute of Technology</i>	Feb 20, 2014	Rochester, NY
College of Science, Distinguished Speaker		
<i>Northwestern University</i>	Dec 4, 2013	Chicago, IL
<i>Moss Rehabilitation Research Institute</i>	Dec 11, 2013	Philadelphia, PA
<i>Society for Neuroscience</i>	Nov 11, 2013	San Diego, CA
<i>Society for Neuroscience</i>	Nov 13, 2013	San Diego, CA
<i>Army Research Laboratory</i>	Nov 4, 2013	Potomac, MD
<i>Princeton University</i>	Nov 1, 2013	Princeton, NJ
<i>Florida Atlantic University</i>	Oct 8, 2013	Boca Raton, FL
<i>Syracuse University</i>	Sept 27, 2013	Syracuse, NY
<i>Lieber Institute</i>	Sept 25, 2013	Baltimore, MD
<i>University of Pennsylvania</i>	Sept 24, 2013	Philadelphia, PA

<i>John Hopkins University</i>	Sept 4, 2013	Baltimore, MD
<i>Oxford University</i>	July 9, 2013	Oxford, UK
<i>SIAM: Applications of Dynamical Systems</i>	May 20, 2013	Snowbird, UT
<i>Sage JRF Workshop</i>	April 22, 2013	Santa Barbara, CA
<i>Princeton University: Physics Seminar</i>	March 8, 2013	Princeton, NJ
<i>Stonybrook University: Laufer Center Seminar</i>	March 7, 2013	Stony brook, NY
<i>University of California Irvine: Physics Seminar</i>	Feb 25, 2013	Irvine, CA
<i>University of Pennsylvania: ESE & BE Colloquium</i>	Feb 21, 2013	Philadelphia, PA
<i>Penn State University: Physics Colloquium</i>	Feb 19, 2013	University Park, PA
<i>Princeton University: PACM & MAE Seminar</i>	Feb 15, 2013	Princeton, NJ
<i>Carnegie Mellon University: Bioengineering</i>	Feb 12, 2013	Pittsburgh, PA
<i>Ohio State University: Computer Science</i>	Feb 7, 2013	Columbus, OH
<i>Emory: Physics Colloquium</i>	Jan 28, 2013	Atlanta, GA
<i>UNC: Applied Mathematics Colloquium</i>	Jan 24, 2013	Chapel Hill, NC
<i>Harvard: WAM Seminar</i>	Jan 22, 2013	Boston, MA
<i>University of Oregon: Mathematics and Biology</i>	Jan 15, 2013	Eugene, OR
<i>University of Michigan: CSCS</i>	Nov 27, 2012	Ann Arbor, MI
<i>University of North Carolina Chapel Hill</i>	Nov 9, 2012	Raleigh, NC
<i>Cornell: Applied Math Colloquium</i>	Sept 7, 2012	Ithaca, NY
<i>Institute for the Applications of Mathematics</i>	June 21, 2012	Riverside, CA
<i>Center for Imaging of Neurodegenerative Diseases</i>	June 2, 2012	San Francisco, CA
<i>UCSB Physics Colloquium</i>	May 29, 2012	Santa Barbara, CA
<i>Penn State Physics Department Special Seminar</i>	March 29, 2012	University Park, PA
<i>UCSB Mechanical Engineering Seminar</i>	March 14, 2012	Santa Barbara, CA
<i>Cornell University: Biomedical Imaging</i>	March 7, 2012	Manhattan, NY
<i>Yale: Swartz Program in Theoretical Neurobiology</i>	Oct 28, 2011	New Haven, CT
<i>Virginia Tech Physics Colloquium</i>	Sept 12, 2011	Blacksburg, VA
<i>KITP Mini-Program</i>	August 3, 2011	Santa Barbara, CA
<i>University of Glasgow</i>	June 10, 2011	Glasgow, UK
<i>University of Minnesota CNR Colloquium</i>	March 22, 2011	Minneapolis, MN
<i>University of Minnesota CMRR Colloquium</i>	March 21, 2011	Minneapolis, MN
<i>International Imaging Genetics Conference</i>	January 17, 2011	UC Irvine, CA
<i>Virginia Tech Physics Colloquium</i>	January 14, 2011	Blacksburg, VA
<i>Virginia Tech Carilion Institute Colloquium</i>	January 13, 2011	Roanoke, VA
<i>SAMSI Dynamics of Networks Workshop</i>	January 10, 2011	Raleigh, NC
<i>INFORMS</i>	Nov 8, 2010	Austin, TX
<i>INFORMS</i>	Nov 10, 2010	Austin, TX
<i>Neuroimaging Tech for Optimizing Performance</i>	Sept 24, 2010	Alexandria, VA
<i>Brain Connectivity Workshop 2010</i>	June 2, 2010	Berlin, Germany

Teaching Presentations

<i>SFN Short Course on Neural Data Science</i>	Nov 11, 2016	San Diego, CA
<i>The UCLA Advanced Neuroimaging Summer Prg.</i>	July 2011	Los Angeles, CA
<i>UCSB Course Lecture, "Special Topics" psy594LN</i>	April 18, 2011	Santa Barbara, CA
<i>Society for Neuroscience Short Course</i>	Nov 12, 2010	San Diego, CA
<i>The UCLA Advanced Neuroimaging Summer Prg.</i>	July 20, 2010	Los Angeles, CA
<i>The 4th APCTP-KAIST School for Brain Dynamics</i>	December 12, 2009	Daejeon, South Korea

AFFILIATIONS:

APS (American Physical Society); OHBM (Organization for Human Brain Mapping); SfN (Society for Neuroscience); SIAM (Society for Industrial and Applied Mathematics); IEEE EMBS (Engineering in Medicine and Biology Society); ISMRM (International Society for Magnetic Resonance in Medicine)

PEER REVIEW PROCESS:

Proposal Review Panels:

Standing Panel: Board of Scientific Counselors, National Institute of Mental Health (2018-2023)

Standing Panel: MABS, NIH 2017-2020.

Ad-Hoc Panels: NSF CAREER Panel (2014), NSF Brain Initiative Panel (2015), NSF CISE Panel (2015), NIH R01 Brain Initiative (2016), NIH MABS (2016), NSF CAREER ad hoc reviewer (2016), NSF PLS (2017), NSF MABS (2017), NIH R01 Brain Initiative (2017).

Reviewer for 34 journals: American Journal of Psychiatry, Behavioral Brain Research, Biological Psychiatry, Brain, Brain Structure and Function, Cerebral Cortex, Clinical NeuroImage, Cortex, Frontiers in Human Neuroscience, Frontiers in Systems Neuroscience, Human Brain Mapping, Journal of Neurophysiology, Journal of Neuroscience, Journal of Neuroscience Methods, Journal of Royal Society Interface, Lancet Neurology, Nature, Nature Communications, Nature Neuroscience, Network Science, NeuroImage, Neuroinformatics, Neuron, New England Journal of Medicine, Nonlinearity, PLoS Computational Biology, PLoS One, Physica D, Physical Letters A, Physical Review Letters, Proceedings of the National Academy of Sciences (PNAS), Schizophrenia Bulletin, SIAM Review, Transactions on Biomedical Engineering, Trends in Cognitive Science (TICS).

Current Positions:

Senior Editor: Network Neuroscience (MIT press, inaugural team).

Guest Editor: Proceedings of the National Academy of Sciences (PNAS), PLoS Computational Biology

Associate Editor: IEEE Transactions on Network Science and Engineering

Editor: Journal of Complex Networks (Oxford University Press; inaugural editorial team), Computational Psychiatry (MIT Press; inaugural editorial board)

Past Positions:

Associate Editor: IEEE Journal on Translational Engineering in Health and Medicine (2015-2017)

Editor: Frontiers in Physics, Frontiers in Physiology

MENTORING, TEACHING, and OTHER EXPERIENCE:

MENTORING COMMITTEE

Colin Twomey, postdoc in MindCore

2019-2020

EXTERNAL EXAMINER

Tatyana Gavrilchenko, Physics & Astronomy Graduate Group Penn

April '20

Daniella Zoller (EPFL)

Jun '19

THESIS COMMITTEE MEMBER:

Cassiano Becker (Electrical & Systems Engineering)

Fall '19

Leon Weninger (Aachen University)

Fall '19

Maria Diaz-Ortiz (Bioengineering)

Fall '19

John Bernabei (Bioengineering)

Fall '19

Andre Revell (Neuroscience)

Fall '19

Samantha Schumm (Bioengineering)

Spring '18

Preya Shah (Bioengineering)

Spring '17

Ethan Solomon (Bioengineering)

Summer '16

Megan Sperry (Bioengineering)

Summer '16

Lohith Kini (Bioengineering)

Summer '16

Steve Baldassano (Bioengineering)

Summer '16

Long Xie (Bioengineering)

Spring '16

Seth Madlonkay (Neuroscience)	Spring '16
Sijia Zhang (Bioengineering)	Spring '15
Hoameng Ung (Bioengineering)	Summer '15
Modupe Alexandra Adegoke (Bioengineering)	Summer '15
Ankit Khambhati (Bioengineering)	Fall '14
Yunshu Fan (Neuroscience)	Summer '14
Marcelo Mattar (Psychology)	Summer '14
Shi Gu (Applied Mathematics)	Summer '14
Muzhi Yang (Applied Mathematics)	Summer '14
Sarah Middleton (Genomics and Computational Biology)	Winter '14
Andrew Gifford (Neuroscience)	Winter '14
Harini Eavani (Engineering and Applied Science)	Fall '13

QUALIFICATIONS EXAM COMMITTEE:

Camille Testard (Neuroscience)	May '20
Shubhankar Patankar (Bioengineering)	Fall '19
Andre Revell (Neuroscience)	Fall '19
Jason Kim (Bioengineering)	Spring '19
Ann Sizemore Blevins (Bioengineering)	Spring '18
Christopher W. Lynn (Physics)	Spring '18
Kyra Schapiro (Neuroscience)	Spring '17
Briana Last (Psychology)	Spring '17
Adrianna Familiar (Psychology)	Spring '16
Preya Shah (Bioengineering)	Spring '16
Steve Baldassano (Bioengineering)	Fall '15
Laura Wiles (Bioengineering)	Fall '15
Nathan Tardiff (Psychology)	Spring '15
Lohith Kini (Bioengineering)	Summer '14
Long Xie (Bioengineering)	Fall '14
Hoameng Ung (Bioengineering)	Summer '14
Modupe Alexandra Adegoke (Bioengineering)	Summer '14

PRIMARY RESEARCH SUPERVISOR:

High School Students:

Alexandra Drake	Summer '19
Samantha Simon	Summer '19
Alexa Spagnola	Summer '17
Ryan O'Donnell	Summer '16
Mallika Dinakar	Summer '16
Soo Jang (Peddie Highschool)	Summer '15
Accepted to MIT	
Sophie Fisher (Agnis Irwin)	Summer '15
Caroline Casey (Peddie Highschool)	Summer '14
Now an undergrad at Penn	
Adam Lastowka (Open Connections)	Summer '14

Undergraduate Students:

Present:

Samantha Simon (Physics)	Fall '19 - present
Nathaniel Nyema (Bioengineering)	Summer '18-present
Abigail Poteshman (Physics; University Scholars Program)	Sum '17-present
Lindsay Smith (Physics)	Jan '19 to present
William Qian (Vagelow)	2019 to present

Past

Maya Levitan, Bioengineering (Rice University)	Summer '19
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Pranav Iyer, Physics	Fall '19
Pranav Reddy (Vagelos Scholars Program in Molecular Life Sciences)	Fall '15 – 2018
March Choi (Computer Science)	Jan '19 to Fall '19
Nico Christianson (Applied Mathematics)	Summer '18 – '19
Andrej Ilic (Bioengineering)	Summer '18 – '19
Melanie Hillman (Bioengineering)	Fall '17-present
Vidula Kopli (Bioengineering)	Fall '16-Sum '18
Melissa Judge (Bioengineering, SunFest Program)	Summer '18
Yueqi Ren (Bioengineering)	Spring '16-Spring '18
Caleb Chen (Cognitive Science)	Spring '18
Christian Rodriguez (Bioengineering)	Fall '17
Martin Rubin (Mathematics)	Sum '17
Elena Wu-Yan (Computer Science, Cognitive Science)	Spring '16-Fall '17
Jason Grosz (Bioengineering)	Fall '16-Fall '17
Aditya Srivatsan (Electrical and Systems Engineering)	Spring '16-Sum '17
Lucy Chai (Penn, Bioengineering)	Summer '14-Spr '17
Julia Costantini (Bioengineering)	Fall '14-Spr '17
James Bartolozzi (Digital Media & Design)	Spring '15 – '16
Kanika Mohan (Bioengineering)	Spring '16-Sum '17
Andrew Maguire (Vagelos Scholar)	Fall '14-Sp '15
Roshan Ravishankar (Wharton)	Fall '15 – Fall '16
Alex Kostiuk (Vagelos Scholar)	Fall '14-Summer '16
Eric Bridgeford (John Hopkins, Bioengineering)	Summer '14
Zitong Zhang (Tsinghua University)	Summer '14
David Baker (Electrical and Systems Engineering)	Fall '13-Sp '15
– undergraduate research for credit	

Research Assistants:

Sophie Loman	Feb '20 to present
Graduated with degree in cognitive science From Tufts in '18	
Alec Helm	Summer '19 to present
Graduated with degrees in mathematics & philosophy From Penn in '19	
Karol Szymula	Summer '18 to present
Graduated with degree in bioengineering from Penn in '18	
Jonathan Soffer	Summer '16 to '18
Moved to training to be a highschool teacher	
Felix Siebenhuener	2011-2012
Moved to postdoc at Helsinki	

Graduate Students:

Present:

Panagiotis Fotiadis (Ph.D. candidate in Neuroscience)	Summer '19 to present
Shunhankar Patankar (Ph.D. candidate in Bioengineering)	Spring '19 to present
Dale Zhou (Ph.D. candidate in Neuroscience)	Summer '18 to present
Keith Wiley (Ph.D. candidate in Physics)	Summer '18 to present
Harang Ju (Ph.D. candidate in Neuroscience)	Spring '18 to present
Jeni Stiso (Ph.D. candidate in Neuroscience)	Fall '17 to present
Jason Kim (Ph.D. candidate in Bioengineering)	Fall '16 to present
Lia Papadopoulos (Ph.D. candidate, Physics)	Fall '15 to present
Ari Kahn (Ph.D. candidate, Neuroscience)	Jan '15 to present

Past:

Eli Comblath (Ph.D. candidate in Neuroscience)	Fall '17 to present
Christopher W. Lynn (Ph.D. candidate in Physics)	Fall '17 to Spr '20

Ann Sizemore Blevins (Ph.D. candidate in Bioengineering)	Jan '17 to Fall '19
Andrew Murphy (Ph.D. candidate, Bioengineering)	Fall '15 to Fall '19
Pooja Shah (M.S. candidate in Finance)	Fall '17-2018
Patrick Crutchley (M.S. candidate in Bioengineering)	Fall '16-Fall '17
Laura Wiles (Ph.D. candidate, Bioengineering)	Fall '14 to Sum '17
Shi Gu (Ph.D. candidate, Applied Math & Computational Sci.)	Fall '13-'16
- Graduated in May, 2016	
- Now Tenured Professor at Chengdu University of Science and Technology	
In 2017, he was listed in Forbes China List Of 300 Top Innovators, Entrepreneurs And Leaders Under Age 30 (Shi Gu was 26)	
Marcelo Mattar (Ph.D. candidate, Psychology)	Jan '15 to '16
- Graduated in July, 2016	
- Currently Junior Research Fellow at the University of Cambridge, after finishing a postdoc at Princeton University	
Muzhi Yang (Ph.D. candidate, Applied Math & Computational Sci.)	Fall '13 to Summer '15
- On medical leave of absence in China	
Ann Sizemore (M.S. candidate, Bioengineering)	Spring '15 to Dec '15
- Thesis Research in my group	
- Graduated December, 2015	
- Returned for a Ph.D. in my group, where she currently is now, slated to finish her Ph.D. in December, 2019	
Ankit Khambhati (Bioengineering); graduate study	Summer '15 to Dec '15
- Graduated in December, 2015	
- Currently a postdoc with Edward Chang, UCSF	

Postdoctoral Fellows:

Present:

Cassiano Becker, Systems Engineer	Winter '19 to present
Erfan Nozari, Systems Engineer	Fall '19 to present
Pragya Srivastava, Physicist	Spr '19 to present
Linden Parkes, Psychologist	Spr '19 to present
Lorzenzo Caciagli, Neurologist	Jan '19 to present
Arun Mahadevan, Bioengineer	Fall '18 to present
Erin Teich, Physicist	Fall '18 to present
Xiaosong He, Bioengineer	Fall '18 to present
Zhixin Lu, Physicist	Fall '17 to present
David Lydon-Staley, Psychologist	Fall '17 to present
Maxwell Bertolero, Neuroscientist	Sum '17 to present

Past:

Urs Bruan, Neuroscientist and Psychiatrist	Jan '19 to Winter '19
Now Assistant Professor at the Central Institute of Mental Health in Mannheim, Germany	
Evelyn Tang, Physicist	Fall '15 to Summer '18
Now Group Leader at Max Planck Institute for Dynamics and Self-Organization in Göttingen, Germany	
Azeez Adebimpe, Electrical Engineer	Fall '16 to Spring '18
Now postdoc with Theodore D. Satterthwaite	
Richard Betzel, Systems Neuroscientist	Fall '15 to summer '18
Assistant Professor of Psychological & Brain Sciences at Indiana University	
Elisabeth Karuza, Psychologist	Spring '16 to Summer '18
Assistant Professor of Psychology at Pennsylvania State University	
Steve Tompson, Psychologist	Fall '16 to Summer '18
Now Robert J. Eichelberger Distinguished Postdoctoral Fellow US Army Research Laboratory	
Ankit Khambhati, Bioengineer	Spring '16 to Fall '17

Now senior postdoc at UCSF with Eddie Chang	
Chad Giusti, Mathematician	Fall '14 to Sum '17
Now Assistant Professor of Mathematics at U Delaware	
Arian Ashourvan, Psychologist	Fall '15 to Sum '17
Now senior postdoc at Penn with Brian Litt	
Shi Gu, Applied Mathematician	Fall '16 – Sum '17
Co-Supervised with Theodore Satterthwaite	
Now Tenured Professor at Chengdu University of Science and Technology	
In 2017, he was listed in Forbes China List Of 300 Top Innovators, Entrepreneurs And Leaders Under Age 30 (Shi Gu was 26)	
Ralf Schmaelzle, Psychologist	Fall '15 to Summer '16
Co-supervised with Emily Falk	
Now Assistant Professor at Michigan State	
Qawi Telesford, Bioengineer	Winter '14 to Summer '16
Now at NKI Rockland as Senior Research Scientist	
Sarah Muldoon, Physicist	Winter '14 – Sum '15
Now an Assistant Professor of Mathematics	
SUNY Buffalo	
John Medaglia, Clinical Neuropsychologist	Fall '14 to Fall '15
Now an Assistant Professor at Drexel University	
Awarded an NIH Early Independence Award (DP5)	

Visiting Fellows:

Richard Rosch (University College London)	Fall '18 to present
Karolina Finc (Centre for Modern Interdisciplinary Technologies at Nicolaus Copernicus University (Poland)	Fall '18 to 2019
Daniela Zoller (EPFL)	Summer '18
Chris Vriend (VU University Medical Center, Amsterdam)	Spring '17
Urs Braun (Central Institute of Mental Health, Mannheim, Germany)	Winter '14, '15
Jean Vettel (Army Research Laboratory)	Fall '15 to present
Greg Lieberman (Army Research Laboratory)	Fall '15 to present

SECONDARY RESEARCH SUPERVISOR:

Thomas Campbell Arnold (with Brian Litt, Department of Neurology)	Sum '19 to present
Ph.D. Candidate in Bioengineering	
Ursula Tooley (with Allyson Mackey, Department of Psychology)	Spr '18 to present
Ph.D. Candidate in Neuroscience	
Teresa Karrer (with Danilo Bzdok at University of Aachen, Germany)	Fall '16 to Fall '19
Graduate student in the IRTG2150	
Jeremy Lefort-Besnard (with Danilo Bzdok at University of Aachen, Germany)	Fall '16 to Fall '18
Graduate student in the IRTG2150	
Shi Gu (Psychiatry; with T. D. Satterthwaite)	Sum '16 to Sum '17
Postdoctoral research associate	
Azeez Adebimpe (Communications; with Dan Romer)	Sum '16 to 2018
Postdoctoral research associate	
Cedric Xia (Neuroscience; with T.D. Satterthwaite)	Spring '16 to 2019
Ph.D. Candidate	
Graham Baum (Neuroscience; with T.D. Satterthwaite)	Fall '15 to 2019
Ph.D. Candidate	
Marcelo Mattar (Psychology; with Sharon Thompson-Schill, Geoffrey Aguirre)	2013-Jan '15
Published in PLoS Comp Biol	
Ankit Khambhati (Bioengineering; with Brian Litt)	2013-Summer '15
Published in PLoS Comp Biol	
Christian Lohse, Undergraduate Research Experience	2012-2013

Published in PloS Comp Biol	
Florian Klimm, Undergraduate Research Experience	2012-2013
Published in PLoS Comp Biol	
Undergraduate Thesis: Mary-Ellen Lynall, University of Cambridge	2009
Title: "Functional Connectivity and Brain Networks in Schizophrenia"	
Published in J Neurosci	
Master's Thesis: Lorena Deuker, University Konstanz, Dept of Psychology	2008-2009
Title: "Reproducibility of Graph Metrics in MEG"	
Published in Neuroimage	

TEACHING:

At University of Pennsylvania:

BE 566 Network Neuroscience	Fall '19
BE 566 Network Neuroscience	Spr '19
EAS 244 Curiosity: Ancient and Modern Thinking about Thinking	Fall '18
13 students; Co-taught with Prof. Peter Struck	
BE 566 Network Neuroscience	Fall '17
15 students; Instructor rating: 3.92/4; Course rating 3.54/4.	
ENM 240 Linear Algebra and Differential Equations	
15 students; Co-taught with Prof. Arjun Raj	
BE 566 Network Neuroscience	Spring '16
26 students; Instructor rating: 3.80/4; Course rating 3.65/4.	
ENM 375 Fundamentals of Biostatistics	Fall '15
34 students; Instructor rating 3.70/4; Course rating 3.33/4.	
Co-taught with Prof. Jennifer Philips-Cremins	
BE 566 Network Neuroscience	Fall '14
24 students; Instructor rating: 3.76/4; Course rating 3.24/4.	

Independent Study:

Harang Ju	
"Intersections in network representations & network models"	Fall '18
Vidula Kopli	
"Graph signal processing for human neuroimaging"	Fall '18
Brooke Berhbaum	Spring '17
"Evolution of semantic networks in biomedical texts"	
Lucy Chai	Spring '17
"Evolution of semantic networks in biomedical texts"	
Mary Sun, Wharton	Spring '16
"Computationally Defining Scientific Fields"	
James Bartolozzi, Digital Media and Design	Spring '16
"White Matter Architecture of Human Brain"	
David Kersen, MSTP Program	
"Statistical Mechanics of Complex Networks"	Spring '16
Ann Sizemore, Bioengineering	Spring '15
"Algebraic Topology"	
Ted Fujimoto, Bioengineering	Spring '15
"Intersubject Network Construction"	
Emily Hyman, Electrical & Systems Engineering	Spring '14
"Social Information Transmission"	
Shi Gu, Applied Mathematics & Computational Science	Fall '13
"Network Dynamics"	
Muzhi Yang, Applied Mathematics & Computational Science	Fall '13
"Network Geometry"	
Andrew Maguire, Biochemistry	Fall '15
"Network Growth Models"	

At Other Institutions:

Co-Developed and Co-Taught UCSB Graduate Course On Interdisciplinary Methods in Brain Sciences	Spring '12,'13
Supervisor of Physics 1A for the University of Cambridge Clare, Kings and Churchill Colleges	2005-2009
Laboratory Teaching Assistant Pennsylvania State University	2002-2004
Tutor for undergraduate math and physics Pennsylvania State University	2000-2002

INDUSTRY PLACEMENT:

GlaxoSmithKline, Cambridge. Study #TMT110737; PI Odile Dewit.	2008-2009
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UNDERGRADUATE RESEARCH:

<i>Biomaterials and Bionanotechnology Summer Institute (NSF, NIH Awards)</i> Research Title: Metal Ion Partitioning in Giant Vesicles	State College, PA Summer 2003
<i>Bucknell University (NSF Research Experience for Undergraduates Award)</i> Research Title: Physical Modeling of Nerve Impulses	Lewisburg, PA Summer 2002

CLINICAL EXPERIENCE:

<i>Morning Star Orthopedics</i> Medical Secretary and Patient Care	Elverson, PA Summer 2000
<i>The Reading Hospital and Medical Center</i> Unit Support Worker in Patient Care	Reading, PA Feb-June 2000

SOFTWARE PACKAGES:

Contributed to:

BCT (Brain Connectivity Toolbox), Indiana University (Olaf Sporns)

Produced and/or Updated by Bassett Lab:

1. Network Community Toolbox, University of Pennsylvania (DS Bassett)
2. Dynamic Graph Metrics Toolbox, University of Pennsylvania
(<https://doi.org/10.5281/zenodo.583170>)
3. Non-negative Matrix Factorization Toolbox for Dynamics Graphs
(<https://doi.org/10.5281/zenodo.583150>)
4. Network Construction and Analysis Toolbox
(<http://www.aesizemore.com/network-toolbox.html>)
5. Brain Graphs, a python library for functional connectivity and graph theory analysis of fMRI (Maxwell Bertolero), https://github.com/mb3152/brain_graphs
6. Diverse Club, a python library for analyses of rich and diverse clubs of biological and artificial networks, (Maxwell Bertolero), https://github.com/mb3152/diverse_club. This code recreates all analyses in Bertolero MA, Yeo BTT, D'Esposito M. The diverse club. Nature Communications. 2017;8:1277
7. HCP_Performance, a python library for analyses of individual differences in network structure and cognitive performance for the Human Connectome Subject Subjects.
https://github.com/mb3152/hcp_performance, This code recreates all analyses in our paper that is under revision at Nature Human Behavior, A mechanistic model of connector hubs, modularity, and cognition.
8. Rewiring code from "The specificity and robustness of long-distance connections in weighted, interareal connectomes published: <https://www.richardfbetzels.com/code/>.
9. Code for this paper: Cedric H. Xia, Zongming Ma, Rastko Ciric, Shi Gu, Richard Betzel, Monica Calkins, Philip Cook, Angel Garcia de la Garza, Simon Vandekar, Zaixu Cui, Tyler Moore, David Roalf, Kosha Ruparel, Daniel Wolf, Ruben Gur, Raquel Gur, Christos Davtzikos, Russell Shinohara, Danielle S. Bassett, Theodore D. Satterthwaite,

- Linked dimensions of psychopathology and functional connectivity in brain networks. Submitted <https://github.com/cedricx/sCCA/tree/master/sCCA/code/final>
10. Graduate student **Eli J. Cornblath** released https://github.com/ejcorn/brain_states for his paper in press at *Communications Biology*, “Temporal sequences of brain activity at rest are constrained by white matter structure and modulated by cognitive demands.”
 11. Graduate student **Eli J. Cornblath** released https://github.com/ejcorn/connectome_diffusion for Henderson et al. published in *Nature Neuroscience* this year, “Spread of α -synuclein pathology through the brain connectome is modulated by selective vulnerability and predicted by network analysis.”
 12. Graduate student **Eli J. Cornblath** released <https://github.com/ejcorn/GBAvsPBSDiffusion> for Henderson et al. published in *Neuron* this year, “Glucocerebrosidase activity modulates neuronal susceptibility to pathological α synuclein insult.”
 13. Graduate student **Jennifer Stiso** releases code <https://github.com/jastiso/NetBCI> for her paper in press at the *Journal of Neural Engineering* titled “Mesoscale architecture of dynamic functional connectivity during brain-computer interface control reveals important role for sustained attention in learning”.
 14. Graduate student **Ursula Tooley** releases code: Esteban, O., Blair, R., Markiewicz, C. J., Berleant, S. L., Moodie, C., Ma, F., ... Tooley, U.A., Poldrack, R.A., Gorgolewski, K. J. (2019). fMRIPrep: A robust preprocessing pipeline for functional MRI (Version 1.5.0). <https://doi.org/10.5281/zenodo.3375521>
 15. Graduate student **Ursula Tooley** releases code: Esteban, Oscar, Blair, Ross, Markiewicz, Christopher J., Berleant, Shoshana L., Poldrack, Russell A., & Gorgolewski, Krzysztof J. Researchers: Lurie, Daniel J., Kent, James D., Ye, Zhifang, Tooley, Ursula A., Goncalves, Mathias, Ghosh, Satrajit, Thompson, William H. (2019). NIWorkflows: NeuroImaging Workflows (Version 0.10.3). <http://doi.org/10.5281/zenodo.3403256>
 16. Graduate student **Shubhankar P. Patankar** released https://github.com/spatank/modularity_controllability for his paper under review at *Network Neuroscience*, "Path-dependent connectivity, not modularity, consistently predicts controllability of structural brain networks."
 17. Graduate student **Dale Zhou** released the Gender Diversity Statement and Code Notebook: <https://github.com/dalejn/cleanBib>
 18. Graduate student **Dale Zhou** released code accompanying “Efficient Coding in the Economics of Human Brain Connectomics”: <https://github.com/dalejn/economicsConnectomics>
 19. Graduate student **Dale Zhou** released code accompanying “Hunters, busybodies, and the knowledge network building associated with deprivation curiosity”: <https://github.com/dalejn/kinestheticCuriosity>
 20. Postdoc **Ann Sizemore Blevins** released code accompanying “On the reorderability of node-filtered order complexes” just published in *Physical Review E*: https://github.com/BassettLab/Reorderability_scripts
 21. Undergraduate student **William Qian** released <https://github.com/wqian0/MyKuramoto.git> for his project, “Path-dependent Dynamics Induced by Rewiring Networks of Kuramoto Oscillators with Inertia ”

OUTREACH & SERVICE

EXTERNAL ACADEMIC SERVICE:

Board of Scientific Counselors, National Institute of Mental Health	2018-present
American Physical Society, GSNP Executive Committee	2018-present
Senior Scientific Advisor, National Center for Brain Mapping	2016-present
NetSci-X17 program committee	2016-2017
Co-Organizing NetSci symposium “Brain Networks” in Seoul, South Korea	2016-2018
Co-Organizing Keystone Symposia “Connectomics” (2017)	2015-2017

Inaugural Steering Committee Member for “Computational Cognitive Neuroscience Society”	2015-2019
Co-Organizing Inaugural Meeting of the “Computational Cognitive Neuroscience Society”	2016-present
Co-Organized the 3rd Whistler Scientific Workshop: Whistler-Blackcomb, BC, Canada – March 6-9, 2016 Brain Functional Organization, Connectivity and Behavior	2016
Penn State Physics Department External Advisory Board	2015-present
Program Committee Member: NetSci X in Warsaw, Poland	2016
Co-Organized SIAM Featured Minisymposium “Applications of Algebraic Topology to Neuroscience”	2015
Co-Organized NetSci symposium “Brain Networks” in Zaragoza, Spain	2015
Program Committee Member: SIAM Workshop on Network Science	2015
Organized NSF Workshop on Quantitative Theories of Learning, Memory, and Prediction (Co-organizers: William Bialek and Nancy Kopell) Program Support: Betty Tuller and Krastan Blagoev	2014
SIAG-DS Advisory Committee	2014-2015
Co-organized Sage JRF Workshop on Network Science for April, 2013	2013
Co-edited special issue of Computational & Mathematical Methods in Medicine	2012
Winston Churchill Scholarship Screening Committee	2011-2012
Sage Center for the Mind, UCSB, website assistant	2011-present
KITP mini-symposium, organizational assistant	2010-2011
International Hospitality Volunteer, Pennsylvania State University	2002-2004
Habitat for Humanity	2000

INTERNAL ACADEMIC SERVICE:

Scholarly chair committee	2019
Search committee for PIK between neuroscience and bioengineering	2018-present
Bravo in the Alpha/Bravo System for Department Chair	Mar '20-present
BE Faculty Search Committee, SEAS at Penn	2015-2020
AWE (Advancing Women in Engineering), Faculty Oversight Committee	2017-2018
Advisory Board for MindCORE, The Mind Center for Outreach, Research and Education at Penn	2017
AdHoc committee for full professor dossier compilation	2017
BE Seminar series committee	2017-2018
Faculty Fellowship Review Committee	2016
Pinkel lecture 2017 committee	2016
Schwan lecture 2017 committee	2016
Hopper lecture 2017 committee	2016
BE Faculty Search Committee, SEAS at Penn	2016-2017
SAS Velay Fellowship Committee 2016	2016
SAS Faculty Planning Group on Mapping the Mind	2015-2016
Abraham Noordergraaf Research Fellowship 2016	2016
Blue Sky Committee, SEAS at Penn	2015
Data and Computational Science Strategic Planning at Penn	2015
Applied Mathematics & Computational Science Executive Committee	2015
Graduate Admissions Committee for Applied Mathematics & Comp Sci at Penn	2014-2018
Graduate Admissions Committee for Bioengineering at Penn	2013-2018

POSITIONS AND ORGANIZATIONS:

Founder and Director of Penn’s Network Visualization Program	2014-present
Faculty Co-advisor for Society of Women Engineers	2013-2018
Adopt-a-Physicist Volunteer	2009-2015

PRESENTATIONS AND EVENTS:

Center for Teaching & Learning, Penn	Oct 28, 2020
GAINS conference	Nov 14, 2019
Gave guest lecture in Biostats Course (Shinohara)	Nov 14, 2019
Penn BBB109 Guest Lecture	April 18, 2018
Penn CBICA Guest Lecture	April 18, 2018
Quaker Days BFS Faculty Spotlight Lecture	April 18, 2018
Spoke to Penn SWE's HighSchool Shadowing Day (all girls)	Nov 12, 2017
Gave guest lecture in Biostats Course (Shinohara)	April 12, 2017
Gave guest lecture in Penn CBICA Grant Writing Course	April 12, 2017
Gave guest lecture in Penn BBB109	April 12, 2017
Council for Women of Penn Psychology, Faculty Guest	March 21, 2017
Spoke at Penn's GABE BETA Day	Jan 27, 2017
Penn Women in Physics Lunch, Faculty Guest	Nov 18, 2016
Penn Advancing Women in Engineering, Faculty Guest	Nov 8, 2016
Haverford Women in Science, Faculty Guest	Nov 2, 2016
Council for Women of Penn Psychology, Faculty Guest	Oct 21, 2016
Hampshire Women in Science, Faculty Guest	Oct 17, 2016
Spoke at Penn Children's Center to 3-5 yr olds about neuroscience	April 27, 2016
Co-Led Engineering Faculty Teaching Forum on "Getting Students to Work with Data"	April 20, 2016
Spoke at Penn SWE's <i>GEARS Day</i> , as closing ceremony speaker	Mar 19, 2016
Ran 3 workshops at Penn SWE's <i>GEARS</i> day for highschool girls	April 19, 2016
Spoke at Penn's GABE Professional Development Series	Nov 3, 2015
Gave guest lecture in BE 558 Principles of Biological Fabrication	April 23, 2015
Ran 4 workshops at Penn SWE's <i>GEARS</i> day for highschool girls	April 11, 2015
Spoke at Penn Children's Center to 3-5 yr olds about neuroscience	April 10, 2015
Spoke at Harnwell College House	April 9, 2015
Spoke at Penn's GABE Academia Career Panel	March 23, 2015
Ran Art of Network Visualization workshop at GABE BETA Day	January 30, 2015
Spoke at Women in Computer Science Residential: Dinner Discussion	Oct 17, 2014
Participated in Penn's NGG Student-Faculty Lunch	July 9, 2014
Spoke at Penn's STSS on Network Science	July 10, 2014
Spoke at Penn Children's Center to 18-36 month olds about neuroscience	May 6, 2014
Spoke at Penn's SEAS Faculty Interview Process Workshop	March 21, 2014
Spoke at Bayonne NJ Public Highschool about career path and research	March 18, 2014
Spoke at RIT about career paths to students who had not yet selected a major	Feb 20, 2014
Spoke at Penn Career Services's "Faculty Conversations: Preparing For Campus Interviews for Academic Jobs – Science, Mathematics And Engineering"	Feb 6, 2014
Spoke to homeschooled high school students at Open Connections	Jan 14, 2014
Spoke to Penn's BE graduate students about career path and research	Jan 13, 2014
Spoke to underrepresented minorities (McNair Fellows at Depaul University)	Dec 4, 2013
Spoke at Penn's CCN Workshop on the Faculty Job Search	Nov 18, 2014
Participated in Penn's Highschool Shadowing Day as co-advisor of the Society For Women Engineers	Oct 21, 2013
Participated in Penn's Advancing Women in Engineering Faculty Tea	Oct 18, 2013
Spoke to Penn's freshman BE students about career paths, & work-life balance	Sept 19, 2013

COMMUNITY EVENTS:

Choose to be Curious, WERA7LP, 96.7 FM, and wera.fm	August 14, 2019
Lensic Performing Arts Theatre (Santa Fe, NM)	February, 2019
Motor Brewing Company, Chicago, IL	Oct 10, 2018

Westtown: Shoemaker Lecture	April 17-18, 2016
And taught 5 middle and high school classes about network neuroscience	
Engaging Minds, New York, NY	December, 2015
Art-Science Classroom Outreach Event at Huey School in West Philadelphia	November, 2015
Neuroscience Public Lecture, Philadelphia, PA	November, 2015
Included Art Gallery and Hands-on Demos	
Art-Science Classroom Outreach Event at Huey School in West Philadelphia	September, 2015
Featured in NY Magazine <i>Nautilus</i> by cartoonist Lauren R. Weinstein	September, 2015
Keynote Speaker at "Science as a Human Endeavor"	September, 2015
Lantern Theatre, Philadelphia, PA	
Speaker at World Café Live in Philadelphia, PA	July, 2015
Speaker at TedXPenn	April, 2015
Segment on Knowledge@Wharton	September, 2014
Segment on public radio station WHYI's <i>The Pulse</i>	September, 2014
Segment on NPR (National Public Radio)	September, 2014
Hosted Penn Network Visualization Art and Science Gallery	August, 2014

PROFESSIONAL DEVELOPMENT

Penn Faculty Pathways Program	2014-2016
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