

Danielle S. Bassett, Ph.D.

Prepared 7/19/2018

Associate Professor
Primary: Department of Bioengineering
Secondary: Departments of Physics & Astronomy, Electrical & Systems Engineering, and Neurology
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ACADEMIC EMPLOYMENT:

The University of Pennsylvania Eduardo D. Glandt Faculty Fellow Associate Professor Department of Bioengineering	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 Departments of Physics & Psychological and Brain Sciences Sage Center Director: Michael S. Gazzaniga	Santa Barbara, CA Fall '11 – Fall '13
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

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
Estimated GPA >3.9/4.0

Reading, PA
Fall '99 -
Fall '00

AWARDS AND ACHIEVEMENTS:

ACADEMIC ACHIEVMENT AWARDS:

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	Jan, 2012
Award for extraordinary professional accomplishment under 35 yr. of age	
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

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)

INVITED LECTURES & PRESENTATIONS:

Future:

Schrodinger at 75 – The future of biology	Sept 5, 2018	Dublin, Ireland
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Cognitive Computational Neuroscience	Sept 8, 2018	Philadelphia, PA
Society for Neuroscience	Nov 2, 2018	San Diego, CA
Society for Neuroscience	Nov 3, 2018	San Diego, CA
Society for Neuroscience	Nov 5, 2018	San Diego, CA
Georgia Tech – Emory	Nov 28, 2018	Atlanta, GA
Duke University	Dec 7, 2018	Raleigh, NC
Stanford University	Jan 28, 2019	Palo Alto, CA
John Hopkins Applied Physics Laboratory	Feb 7, 2019	Baltimore, MD
Einstein Medical	Mar 19, 2019	New York, NY
Dartmouth College	April 18, 2019	Hanover, NH
SIAM DS19	May 20, 2019	Snowbird, UT
Eberly College of Science 2020 Commencement	May 9, 2020	State College, PA

Past:

<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 Distinguished Early Career Lecture</i>	Nov 30, 2015	Gainesville, FL
<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 Circuits Modeling</i>	Oct 16, 2015	Chicago, IL
<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

PEER REVIEW PROCESS:

Proposal Review Panels:

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

PUBLICATIONS:

(h-Index of 48, >13,400 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 (2)

46. Teresa M. Karrer, **Danielle S. Bassett**, Birgit Derntl, Oliver Gruber, André Aleman, Renaud Jardri, Angela R. Laird, Peter T. Fox, Simon B. Eickhoff, Olivier Grisel, Gaël Varoquaux, Bertrand Thirion, Danilo Bzdok. Automated ranking of impaired cognitive domains in schizophrenia

45. Raphael T. Gerraty, Madeleine Sharp, Amanda Buch, **Danielle S. Bassett**, Daphna Shohamy. Dopamine modulates learning-related changes in dynamic striatal-cortical connectivity: evidence from Parkinson's disease. In preparation.

Submitted (44)

44. 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**. Influence of Neighborhood SES on Functional Brain Network Development. Submitted.

43. Zhixin Lu, **Danielle S. Bassett**. A Parsimonious Dynamical Model for Structural Learning in the Human Brain. Submitted.

42. Gaelle E. Doucet, Dominik A. Moser, Amanda Rodrigue, **Danielle S. Bassett**, David C. Glahn, Sophia Frangou. A novel index for person-based similarity in brain morphometry. Submitted.

41. Jennifer Stiso, **Danielle S. Bassett**. Spatial Embedding Imposes Constraints on the Network Architectures of Neural Systems. Submitted to Trends in Cognitive Science as an invited contribution.

40. Elisabeth A. Karuza, Ari E. Kahn, **Danielle S. Bassett**. Human sensitivity to community structure is robust to topological variation. Submitted.

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

38. Tommaso Menara, Giacomo Baggio, **Danielle S. Bassett**, Fabio Pasqualetti. Stability of Cluster Synchronization in Networks of Kuramoto Oscillators. Submitted.

37. Ann E. Sizemore, Jennifer Philips-Cremins, Robert Ghrist, **Danielle S. Bassett**. The importance of the whole: topological data analysis for the network neuroscientist. Network Neuroscience. Submitted.

36. Eli J. Cornblath, David Lydon-Staley, **Danielle S. Bassett**. Neuropsychiatric care informed by networks and big data. Current Opinions in Neurobiology. Submitted.

35. Jordan Dworkin, Russell T. Shinohara, **Danielle S. Bassett**. The landscape of *NeuroImage*-ing research. Submitted.

34. Christopher W. Lynn, Ari E. Kahn, **Danielle S. Bassett**. Structure from noise: Mental errors yield abstract representations of events. Submitted.

33. Harvey Huang, Sunny Chen, Katelyn Titus, **Danielle S. Bassett**, Jennifer E. Phillips-Cremins. Genome folding is arranged as a core-periphery network within topologically associating domains. Submitted.

32. Evelyn Tang, Marcelo G. Mattar, Chad Giusti, Sharon L. Thompson-Schill, and **Danielle S. Bassett**. Effective learning is accompanied by high dimensional and efficient representations of neural activity. Submitted.

31. Steven H. Thompson, Emily B. Falk, **Danielle S. Bassett**, Jean M. Vettel. Using neuroimaging to predict behavior: An overview with a focus on the moderating role of sociocultural context. Submitted.

30. Jennifer Stiso, Ankit N. Khambhati, Tommaso Menara, Ari E. Kahn, Joel M. Stein, Sandihitsu R. Das, 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. Submitted.

29. Titipat Achakulvisut, David Acuna, **Danielle S. Bassett**, Konrad Kording. Unique subfields of neuroscience exhibit more diverse language. Submitted.
28. **Danielle S. Bassett**, Jennifer Stiso. Spatial Brain Networks. Invited as a chapter in the volume entitled “Spatial Networks” from Comptes-rendus Academie des sciences. Submitted.
27. Ankit N. Khambhati, Ari E Kahn, Julia Costantini, Youssef Ezzyat, Ethan A Solomon, Robert E Gross, Barbara C Jobst, Sameer A Sheth, Kareem A Zaghoul, Gregory Worrell, Sarah Seger, Bradley C Lega, Shennan Weiss, Michael R Sperling, Richard Gorniak, Sandhitsu R Das, Joel M Stein, Daniel S Rizzuto, Michael J Kahana, Timothy H Lucas, Kathryn A Davis, Joseph I Tracy, **Danielle S Bassett**. Predictive control of electrophysiological network architecture using direct, single-node neurostimulation in humans. Submitted.
26. Jason Z. Kim, Zhixin Lu, Steven H. Strogatz, **Danielle S. Bassett**. Conformational Control of Mechanical Networks. Submitted.
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CONFERENCE PRESENTATIONS: (prior to 2013)

<i>SfN 2012</i>	New Orleans, LA	Oct 15, 2012
<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.
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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. Phoenix, 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.
25. T.D. Satterthwaite, S.N. Vandekar, **D.S. Bassett**, D. H. Wolf, Z. Shehzad, C. Craddock, R.T. Shinohara, K. Ruparel, M. A. Elliott, T.M Moore, M.E. Calkins, M. Millham, R.C. Gur, R.E. Gur. Connectome-wide association study reveals dysconnectivity in control and default mode networks in youth with psychosis-spectrum symptoms. OHBM 2015. June 14-18, 2015. Honolulu, Hawaii.

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.
36. John D. Medaglia, T. S. Satterthwaite, M. Yang, S. Gu, Q. K. Telesford, R. Gur, R. E. Gur, and **Danielle S. Bassett**. Brain State Flexibility Predicts Diverse Cognitive Functions During Critical Periods in Neurodevelopment. Society for Neuroscience 2015 October 17-21, Chicago, Illinois.
37. Marcelo Mattar, Nicholas F. Wymbs, Scott T. Grafton, **Danielle S. Bassett**. Predicting Individual Differences in Learning Rate from Resting State fMRI. Society for Neuroscience 2015 October 17-21, Chicago, Illinois.
38. Lucy Chai, Marcelo Mattar, Idan Blanker, Ev Fedorenko, **Danielle S. Bassett**. Functional Network Dynamics of the Language System. Society for Neuroscience 2015 October 17-21, Chicago, Illinois.
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.

41. Raphael T. Gerraty, Juliet Y. Davidow, Karin Foerde, Adriana Galvan, **Danielle S. Bassett**, and Daphna Shohamy. The Role of Network Flexibility in Reinforcement Learning. Cognitive Neuroscience Society. April 2-5, 2016, New York, NY.
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 Papadopoulou, 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**. Structure from noise: Mental errors yield abstract representations of events. 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, Kaczkurkin 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.

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.richardfbetzel.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>

MENTORING, TEACHING, and OTHER EXPERIENCE:

THESIS COMMITTEE MEMBER:

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:

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:	
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:

Caleb Chen (Cognitive Science)	Spring '18-present
Christian Rodriguez (Bioengineering)	Fall '17-present
Melanie Hillman (Bioengineering)	Fall '17-present
Abigail Poteshman (Physics; University Scholars Program)	Sum '17-present
Vidula Kopli (Bioengineering)	Fall '16-present
Yueqi Ren (Bioengineering)	Spring '16-present
Pranav Reddy (Vagelos Scholars Program in Molecular Life Sciences)	Fall '15 – present

Past

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:

Jonathan Soffer	Summer '16 to present
Moved to training to be a highschool teacher	
Felix Siebenhuener	2011-2012
Moved to postdoc at Helsinki	

Graduate Students:

Present:

Christopher W. Lynn (Ph.D. candidate in Physics)	Fall '17 to present
Jeni Stiso (Ph.D. candidate in Neuroscience)	Fall '17 to present
Eli Cornblath (Ph.D. candidate in Neuroscience)	Fall '17 to present
Pooja Shah (M.S. candidate in Finance)	Fall '17-present
Ann Sizemore (Ph.D. candidate in Bioengineering)	Jan '17 to present
Jason Kim (Ph.D. candidate in Bioengineering)	Fall '16 to present
Lia Papadopoulos (Ph.D. candidate, Physics)	Fall '15 to present
Andrew Murphy (Ph.D. candidate, Bioengineering)	Fall '15 to present
Ari Kahn (Ph.D. candidate, Neuroscience)	Jan '15 to present

Past:

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	
Marcelo Mattar (Ph.D. candidate, Psychology)	Jan '15 to '16
- Graduated in July, 2016	
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	

Ankit Khambhati (Bioengineering); graduate study
- Graduated in December, 2015 Summer '15 to Dec '15

Postdoctoral Fellows:

Present:

Zhixin Lu, Physicist Fall '17 to present
David Lydon-Staley, Psychologist Fall '17 to present
Maxwell Bertolero, Neuroscientist Sum '17 to present
Steve Tompson, Psychologist Fall '16 to present
Azeez Adebimpe, Electrical Engineer Fall '16 to present
Richard Betzel, Systems Neuroscientist Fall '15 to present
Evelyn Tang, Physicist Fall '15 to present
Elisabeth Karuza, Psychologist Spring '16 to present

Past:

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 Research Assistant Professor
Department of Psychology, University of Pennsylvania
Awarded an NIH Early Independence Award (DP5)

Visiting Fellows:

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:

Ursula Tooley (with Allyson Mackey, Department of Psychology) Spring '18-present
Ph.D. Candidate in Neuroscience
Teresa Karrer (with Danilo Bzdok at University of Aachen, Germany) Fall '16 to present
Graduate student in the IRTG2150
Jeremy Lefort-Besnard (with Danilo Bzdok at University of Aachen, Germany) Fall '16 to present
Graduate student in the IRTG2150
Shi Gu (Psychiatry; with T. D. Satterthwaite) Summer '16 to Sum '17
Postdoctoral research associate

Azeez Adebimpe (Communications; with Dan Romer) Postdoctoral research associate	Summer '16 to present
Cedric Xia (Neuroscience; with T.D. Satterthwaite) Ph.D. Candidate	Spring '16 to present
Graham Baum (Neuroscience; with T.D. Satterthwaite) Ph.D. Candidate	Fall '15 to present
Marcelo Mattar (Psychology; with Sharon Thompson-Schill, Geoffrey Aguirre) Published in PLoS Comp Biol	2013-Jan '15
Ankit Khambhati (Bioengineering; with Brian Litt) Published in PLoS Comp Biol	2013-Summer '15
Christian Lohse, Undergraduate Research Experience Published in PLoS Comp Biol	2012-2013
Florian Klimm, Undergraduate Research Experience Published in PLoS Comp Biol	2012-2013
Undergraduate Thesis: Mary-Ellen Lynall, University of Cambridge Title: "Functional Connectivity and Brain Networks in Schizophrenia" Published in J Neurosci	2009
Master's Thesis: Lorena Deuker, University Konstanz, Dept of Psychology Title: "Reproducibility of Graph Metrics in MEG" Published in Neuroimage	2008-2009

TEACHING:

At University of Pennsylvania:

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

Independent Study:

Brooke Berhbaum "Evolution of semantic networks in biomedical texts" Through ESE 291	Spring '17
Lucy Chai "Evolution of semantic networks in biomedical texts"	Spring '17
Mary Sun, Wharton "Computationally Defining Scientific Fields"	Spring '16
James Bartolozzi, Digital Media and Design "White Matter Architecture of Human Brain"	Spring '16
David Kersen, MSTP Program "Statistical Mechanics of Complex Networks"	Spring '16
Ann Sizemore, Bioengineering "Algebraic Topology"	Spring '15
Ted Fujimoto, Bioengineering "Intersubject Network Construction"	Spring '15
Emily Hyman, Electrical & Systems Engineering "Social Information Transmission"	Spring '14
Shi Gu, Applied Mathematics & Computational Science "Network Dynamics"	Fall '13
Muzhi Yang, Applied Mathematics & Computational Science	Fall '13

“Network Geometry” Andrew Maguire, Biochemistry “Network Growth Models”	Fall ‘15
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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

OUTREACH & SERVICE

EXTERNAL ACADEMIC SERVICE:

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-present
Co-Organizing Keystone Symposia “Connectomics” (2017)	2015-present
Inaugural Steering Committee Member for “Computational Cognitive Neuroscience Society”	2015-present
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)	2014

Program Support: Betty Tuller and Krastan Blagoev	
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:

AWE (Advancing Women in Engineering), Faculty Oversight Committee	2017-2018
Advisory Board for MindCORE,	2017
The Mind Center for Outreach, Research and Education at Penn	
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
BE Faculty Search Committee, SEAS at Penn	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-present
Graduate Admissions Committee for Bioengineering at Penn	2013-present

POSITIONS AND ORGANIZATIONS:

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

PRESENTATIONS AND EVENTS:

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	April 20, 2016

“Getting Students to Work with Data”	
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:

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” Lantern Theatre, Philadelphia, PA	September, 2015
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 WHY?’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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CURRENT FUNDING:

Fundamentals of Dynamic Network Neuroscience

- 1. Dynamics of State Transitions:** Distinguishing Brain States and Resolving State Transitions, CPNF Subcontract #APX02-0006 (Bassett), Army Research Laboratory via DCS Corporation 05/29/14 – 05/28/18.
- 2. Dynamics of Adaptive Behavior:** Dynamic network neuroscience of adaptation. W911NF-14-1-0679 (Bassett), Army Research Office 10/01/14 - 09/30/18
- 3. Dynamics of Collective Behavior:** MRI: Development of an Observatory for Quantitative Analysis of Collective Behavior in Animals. NSF CNS (Daniilidis, Schmidt, Bassett, Lee, Shi), National Science Foundation, 10/1/2016-9/30/2018.

Building Theories and Tools for Perturbation and Control of Dynamic Brain Networks

- 4. Network Control Theory:** CRCNS: Collaborative Research: Mapping and Control of Large-Scale Neural Dynamics. BCS – 1430087 (Bassett), National Science Foundation, 09/01/14 – 08/31/17
- 5. Network Control as Cognitive Control:** NCS-FO: Collaborative Research: A Mechanistic Model of Cognitive Control. NSF NCS BCS-1631550 (Bassett), National Science Foundation 9/1/16-8/31/19
- 6. Network Control for Neural Computations:** Cognitive Computations: A Network Perspective. ONR Young Investigator Program (Bassett), Office of Naval Research, 08/01/15 – 07/31/18
- 7. Network Control over Development:** Evolution of the Linked Architecture of Network Control and Executive Function in Adolescence. R21-M MH-106799 (Bassett-Satterthwaite MPI), National Institutes of Health, 4/1/16 – 3/31/18
- 8. Network Control for TMS Interventions:** COgnitive Neuromodulation/NEtwork Control Translational Science (CONNECTS) Initiative..TNI (Hamilton), Penn Translational Neuroscience Center, 06/01/16-05/31/2019

Applications of Dynamic Network Neuroscience to Human Learning

- 9. Frontal-mediated Learning:** Linguistic and Nonlinguistic Functions of Frontal Cortex, R01-DC009209 (Thompson-Schill), National Institute of Health, 06/01/14 – 05/31/19
- 10. Brain-Computer-Interface Learning:** CRCNS: US-France Modeling & Predicting BCI Learning from Dynamic Networks, R01-HD086888 (Bassett), National Institutes of Health, 09/17/2015 – 06/30/2019
- 11. Graph Learning:** CAREER: Linking Graph Topology of Learned Information to Behavioral Variability via Dynamics of Functional Brain Network. NSF CAREER PHY-1554488 (Bassett), National Science Foundation, 02/15/2016-02/14/2021
- 12. Social Network Learning:** Individual differences and neural markers of social statistical learning. CPNF Subcontract #APX02-0006, Task Order number 002P (Bassett), Army Research Laboratory via DCS Corporation, 06/01/16 – 05/28/18
- 13. Learning under Stress:** Neural Foundations of Expertise Based on Optimal Decision-making, Physical control and Responses to Stress. ARO MURI (Grafton), Army Research Office, 07/01/2016-05/31/21
- 14. Instructed Learning:** Brain Network Mechanisms of Instructed Learning. NIH R01 (Cole), National Institutes of Health, 9/1/16-8/31/21

Applications of Dynamic Network Neuroscience in Disease

- 15. Irritability:** Longitudinal multi-modal neuroimaging of irritability in youth. R01-MH107703 (Satterthwaite), National Institutes of Health, 07/01/15 – 06/30/19
- 16. Psychopathology:** Multimodal brain maturation indices modulating psychopathology and neurocognition, R01-MH107235 (Gur), National Institute of Health, 08/01/15 – 05/31/18
- 17. Epilepsy:** Virtual Cortical Resection, 1R01NS099348 (Bassett-Litt MPI), National Institutes of Health, 9/1/16-8/31/21

18. Stroke: Dynamic Network Neuroscience and Control Theory: Toward Interventions for Cognitive Control Dysfunction 1-DP5-OD021352 (Medaglia), National Institutes of Health, 09/1/15 – 08/31/20

19. Depression: Dimensional connectomics of anxious misery, 1U01MH109991 (Sheline), National Institutes of Health, 6/3/16 – 2/28/20

20. Concussion: Deconstructing Concussion. (Smith/Meaney), Paul Allen Foundation. 06/01/17-05/31/22

COMPLETED FUNDING:

Dynamic Network Neuroscience, BR2014-094 (Bassett), Sloan Foundation Fellowship, 09/15/14 – 09/15/16

Neural predictors of exposure effects in tobacco graphic warning image: A dynamic network neuroscience Approach, P50-CA179546 TCORS (Falk, Bassett, Seneca), National Institute of Health 09/18/13 – 08/31/18

Resolving Multidimensional Trajectories of Brain Network Architecture, ITMAT (Bassett, Satterthwaite), UPENN ITMAT, 09/15/14 – 09/15/16

Workshop: Quantitative Theories of Learning, Memory, and Prediction, 2014-2015, BCS-1441502 (Bassett), National Science Foundation, 09/15/14 – 09/15/16

Resolving Linked Structure-Function Predictors of Frontotemporal Dementia Pathology, CBICA (Bassett, Gee), UPENN CBICA, 09/15/14 – 09/15/16