

Danielle S. Bassett, Ph.D.

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Associate Professor
Department of Bioengineering
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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	State College, PA Spring '01- May '04

Honors in Physical Chemistry of Synthetic Cells

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:

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

SOFTWARE PACKAGES:

Contributor to BCT (Brain Connectivity Toolbox), Indiana University (Olaf Sporns)
Producer of Network Community Toolbox, University of Pennsylvania (DS Bassett)

EXPERIENCE:

THESIS COMMITTEE MEMBER:

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:

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:

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:

Aditya Srivatsan (Electrical and Systems Engineering)	Spring '16-present
Yueqi Ren (Bioengineering)	Spring '16-present
Elena Wu-Yan (Computer Science, Cognitive Science)	Spring '16-present
Kanika Mohan (Bioengineering)	Spring '16-present
Pranav Reddy (Vagelos Scholars Program in Molecular Life Sciences)	Fall '15 – present
James Bartolozzi (Digital Media & Design)	Spring '15 – '16
Lucy Chai (Penn, Bioengineering)	Summer '14-present
Julia Costantini (Bioengineering)	Fall '14-present

Past

Andrew Maguire (Vagelos Scholar)	Fall '14-Sp '15
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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
Felix Siebenhuener	2011-2012
Now a postdoc at Helsinki	

Graduate Students:

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
Laura Wiles (Ph.D. candidate, Bioengineering)	Fall '14 to present
Ari Kahn (Ph.D. candidate, Neuroscience)	Jan '15 to present

Past:

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	Summer '15 to Dec '15
- Graduated in December, 2015	

Postdoctoral Fellows:

Present:

Ankit Khambhati, Bioengineer	Spring '16 to present
Chad Giusti, Mathematician	Fall '14 to present
Richard Betzel, Psychologist	Fall '15 to present
Evelyn May Tang, Physicist	Fall '15 to present
Arian Ashourvan, Psychologist	Fall '15 to present
Elisabeth Karuza, Psychologist	Spring '16 to present

Past:

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 Data Science Incubator	
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:

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:

Teresa Karrer (with Danilo Bzdok at University of Aachen, Germany) Graduate student in the IRTG2150	Fall '16 to present
Jeremy Lefort-Besnard (with Danilo Bzdok at University of Aachen, Germany) Graduate student in the IRTG2150	Fall '16 to present
Shi Gu (Psychiatry; with T. D. Satterthwaite) Postdoctoral research associate	Summer '16 to present
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 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.	Fall '15
BE 566 Network Neuroscience 24 students; Instructor rating: 3.76/4; Course rating 3.24/4.	Fall '14

Independent Study:

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	Spring '15

“Intersubject Network Construction” Emily Hyman, Electrical & Systems Engineering	Spring ‘14
“Social Information Transmission” Shi Gu, Applied Mathematics & Computational Science	Fall ‘13
“Network Dynamics” Muzhi Yang, Applied Mathematics & Computational Science	Fall ‘13
“Network Geometry” Andrew Maguire, Biochemistry	Fall ‘15
“Network Growth Models”	

At Other Institutions:

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

INDUSTRY PLACEMENT:

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

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

CLINICAL EXPERIENCE:

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

INVITED LECTURES & PRESENTATIONS:

Future:

<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>SFN Short Course on Neural Data Science</i>	Nov 11, 2016	San Diego, CA
<i>UC Irvine Distinguished Lecture</i>	Dec 5, 2016	Irvine, CA
<i>IEEE Global SIP Plenary</i>	Dec 8, 2016	Arlington, VA
<i>Isaac Newton Institute, “Dynamic Networks”</i>	Dec 12, 2016	Cambridge, UK
<i>Dynamics Days</i>	Jan 5, 2017	Silver Spring, MD
<i>Alpine Brain Imaging Meeting</i>	Jan 8 2017	Geneva, Switzerland
<i>NYU Swartz Lecture</i>	Jan 20, 2017	New York NY
<i>Carnegie Mellon Philosophy Department</i>	Feb 13, 2017	Pittsburgh, PA
<i>Princeton University Neuroscience Institute</i>	Feb 16, 2017	Princeton, NJ
<i>Psychiatry Grand Rounds HUP</i>	Mar 2, 2017	Philadelphia, PA
<i>Penn’s Academy Weekend</i>	Mar 4, 2017	Florida
<i>Keystone Connectomics Symposium</i>	Mar 5, 2017	Santa Fe, NM

<i>Social and Affective Neuroscience Society</i>	Mar 17, 2017	Los Angeles, CA
<i>Wiring the Brain</i>	April 4, 2017	Cold Spring Harbor
<i>UC Berkeley</i>	April 6, 2017	Berkeley, CA
<i>NIH Director's Lectureship</i>	May 16, 2017	Bethesda, MD
<i>Intl Conf on Mathematical Neuroscience</i>	May 31, 2017	Boulder, CO
<i>International Conference on Applied Algebraic Topology: Plenary</i>	August 8, 2017	Sapporo, Japan
<i>University of Miami</i>	Sept 15, 2017	Miami, FL
<i>Cornell University</i>	Oct 10, 2017	Ithaca, NY
<i>Boston Univ BME Distinguished Seminar</i>	Dec 1, 2017	Boston, MA
<i>EPFL Life Science Colloquium</i>	TBD	Switzerland

Past:

<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>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
<i>College of Science, Distinguished Speaker</i>		
<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>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

CONFERENCE PRESENTATIONS:

<i>SfN 2012</i>		New Orleans, LA
Poster: "Temporal Dynamics of Putative Functional Modules During Learning"		Oct 15, 2012
<i>OHBM Workshop on Brain Graphs</i>		Beijing, China
Dynamic Network Organization in the Human Brain		June 12, 2012
Presented by Scott T. Grafton.		
<i>Cognitive Neuroscience Meeting</i>		Chicago, IL
Poster: "Dynamic reconfiguration of human brain networks During learning"		April 1, 2012
<i>American Physical Society March Meeting</i>		Boston, MA

- Talk on “Influence of Topology on Signal Propagation in Granular Force Networks” Feb 28, 2012
- International Congress on Schizophrenia Research* Colorado Springs, CO
Invited Talk: “Multiscale statistical analysis of resting state BOLD time series in schizophrenia” April 4, 2011
Presented by: Kelvin O. Lim
- Society for Neuroscience* San Diego, CA
Poster: “Dynamic network reconfiguration of human brain networks during learning” Nov 15, 2010
Presented by: Nick Wymbs
- SAMSI Workshop on Complex Networks* Research Triangle Park, NC
Presented Poster: “Time-dependent Network Architecture of Human Brain Function” August 31, 2010
- Human Brain Mapping* Barcelona, Spain
Presented Poster: “Conserved and variable architecture” June 9, 2010
- Human Brain Mapping* San Francisco, CA
Presented Poster: “Cost-efficiency in informational systems” June 18, 2009
- Society for Neuroscience* San Diego, CA
Invited Talk: “Hierarchical organization of the human multimodal cortical network and its perturbation by schizophrenia” Nov 4, 2007
- Human Brain Mapping* Chicago, IL
Presented Poster: “Topological Dynamics of Synchronized and Syncopated Finger Tapping” June 14, 2007
- Coordination Dynamics* Boca Raton, FL
Presented Poster: “Topological Dynamics of Synchronized and Syncopated Finger Tapping” Feb 23, 2007
- Society for Neuroscience* Atlanta, GA
Presented Poster: “Global, Local, and State-Related Properties of Small-world Human Brain Networks Using MEG” Oct 14, 2006
- Brain Complexity* Hinxton, UK
Presented Poster: “Global, Local, and State-Related Properties of Small-world Human Brain Networks Using MEG” Sept 27, 2006
- NIH Cambridge/Oxford Colloquium* Oxford, UK
Invited Talk: “Global, Local, and State-Related Properties of Small-world Human Brain Networks Using MEG” June 22, 2006
- NIH Cambridge/Oxford Colloquium* Bethesda, MD
Presented Poster: “Wavelet and Graph Theoretic Analysis of Human MEG Images” June 29, 2005

1. Laura Wiles, **Danielle S. Bassett**, David Meaney. Autaptic Connections Shift Network Excitability and Bursting. BMES 2014 Annual Meeting. October 22-25, 2014. San Antonio, Texas.
2. Laura Wiles, **Danielle S. Bassett**, David Meaney. Autaptic connections shift network excitability and bursting. Society for Neuroscience. November 15, 2014. Washington, DC.
3. Marcelo Mattar, Michael W. Cole, Sharon L. Thompson-Schill, **Danielle S. Bassett**. A dynamic functional cartography of cognitive systems. Society for Neuroscience. November 15, 2014. Washington, DC.
4. Ankit Khambhati, Brian Litt, **Danielle S. Bassett**. Dynamic functional reconfiguration in human epileptic networks. Society for Neuroscience. November 17, 2014. Washington, DC.
5. David Baker, Sarah F. Muldoon, Shi Gu, Ankit Khambhati, Marcelo Mattar, Qawi Telesford, Muzhi Yang, **Danielle S. Bassett**. Characterizing modular structure in neuroimaging data: The network community architecture toolbox. Society for Neuroscience. November 19, 2014. Washington, DC.
6. Sarah Muldoon, Jean M. Vettel, **Danielle S. Bassett**. Using stimulation to reveal structure-function relationships in dynamic brain networks. Society for Neuroscience. November 15, 2014. Washington, DC.
7. Qawi Telesford and **Danielle S. Bassett**. Node dynamics in time-dependent brain networks. Society for Neuroscience. November 15, 2014. Washington, DC.
8. Theodore D. Satterthwaite, S. N. Vandekar, Z. Shehzad, **D. S. Bassett**, C. Craddock, D. H. Wolf, R.T. Shinohara, K. Ruparel, M. A. Elliott, M. E. Calkins, R. C. Gur, M. Millham, R. E. Gur. Connectome-wide association study reveals multifocal patterns of dysconnectivity in youth with psychosis-spectrum symptoms. American College of Neuropsychopharmacology. December 7-11, 2014. Phoenix, Arizona.
9. Theodore D. Satterthwaite, S. N. Vandekar, Z. Shehzad, **D. S. Bassett**, C. Craddock, D. H. Wolf, R.T. Shinohara, K. Ruparel, M. A. Elliott, M. E. Calkins, R. C. Gur, M. Millham, R. E. Gur. Connectome-wide association study reveals multifocal patterns of dysconnectivity in youth with psychosis-spectrum symptoms. Fourth Biennial Conference on Resting State / Brain Connectivity. September 11-13, 2014. Cambridge, Massachusetts.
10. Theodore D. Satterthwaite, Joseph W. Kable, Lillie Vandekar, Natalie Katchmar, Claudia F. Baldassano, **Danielle S. Bassett**, Kosha Ruparel, Mark A. Elliott, Ellen Leibenluft, Ruben C. Gur, Raquel E. Gur, Christos Davatzikos, Yvette I. Sheline, Michael E. Thase, & Daniel H. Wolf. Common and Dissociable Abnormalities of the Valuation System in Unipolar and Bipolar Depression. Society of Biological Psychiatry. May 8-10, 2014. New York, New York.
11. Qiang Chen, **Danielle S. Bassett**, Roberta Rasetti, Joseph H. Callicott, Venkata S. Mattay, Daniel R. Weinberger. Altered Graph Theory Measures of Brain Networks in Patients with Schizophrenia: Potential Intermediate Phenotypes. Society of Biological Psychiatry. May 8-10, 2014. New York, New York.
12. Yuming Huang, **Danielle S. Bassett**, Karen E. Daniels. A community detection method for force chain network identification in 3D granular systems. PASI on Frontiers in Particulate Media: From Fundamentals to Applications. August 11-22, 2014. La Plata, Argentina.
13. Theodore D. Satterthwaite, **Danielle S. Bassett**, Matthew Weber, Brian Avants, Cook, Michael Millham, Yvette Sheline. American College of Neuropsychopharmacology. December 7-11, 2014. 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 Papadopoulou, **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.

PEER REVIEW PROCESS:

Proposal Review Panels: NSF CAREER Panel (2014), NSF Brain Initiative Panel (2015), NSF CISE Panel (2015), NIH R01 Brain Initiative (2016), NIH MABS (2016).

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)

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

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

Associate Editor: IEEE Journal on Translational Engineering in Health and Medicine, 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), Frontiers in Physics, Frontiers in Physiology

PUBLICATIONS:

(h-Index of 31, >7600 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).

Commissioned (4)

Arian Ashourvan, Jean M. Vettel, **Danielle S. Bassett**. Journal of Cybernetics, 2017. Commissioned.

Jinsu Kim & **Danielle S. Bassett**. Control theory for brain networks. Journal of Royal Society Interface. 2017. Commissioned.

Andrew Murphy & **Danielle S. Bassett**. Current Opinions in Biomedical Engineering. 2017. Commissioned.

Evelyn Tang & **Danielle S. Bassett**. Reviews of Modern Physics. 2017. Commissioned.

Submitted (37)

37. Nicole Cooper, Steven Tompson, Matthew B. O'Donnell, Jean M. Vettel, **Danielle S. Bassett**, Emily B. Falk. Coherent neural activity in the brain's value system during antismoking messages predicts reductions in smoking. Submitted to International Communication Association.

36. Heidi K. Norton, Harvey Huang, Daniel J. Emerson, Jesi Kim, Shi Gu, **Danielle S. Bassett**, Jennifer E. Phillips-Cremens. Robust tracking of hierarchical 3D genome folding dynamics with network modularity. Submitted.

35. Qawi K. Telesford, Arian Ashourvan, Nicholas F. Wymbs, Scott T. Grafton, Jean M. Vettel, **Danielle S. Bassett**. Cohesive Network Reconfiguration Accompanies Extended Training. Submitted.

34. **Danielle S. Bassett** & Ankit N. Khambhati A network engineering perspective on probing and perturbing cognition with neurofeedback. For The Year of Cognition, in the Annals of the New York Academy of Sciences. Commissioned.

33. Elisabeth A. Karuza, Ari E. Kahn, Sharon L. Thompson-Schill, & **Danielle S. Bassett**. Process reveals structure: How a network is traversed mediates expectations about its architecture. Submitted.
32. Leah Goldsberry, Weiyu Huang, Nicholas F. Wymbs, Scott T. Grafton, **Danielle S. Bassett**, Alejandro Ribeiro. Brain signal analytics from graph signal processing perspective. Submitted.
31. Ralf Schmälzle, 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. Submitted.
30. 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. Submitted.
29. Shi Gu, Muzhi Yang, John D. Medaglia, Ruben C. Gur, Raquel E. Gur, Theodore D. Satterthwaite, **Danielle S. Bassett**. Functional Hypergraph Uncovers Novel Covariant Structures over Neurodevelopment. Submitted.
28. Arian Ashourvan, Shi Gu, Marcelo G. Mattar, Jean M. Vettel and **Danielle S. Bassett**. The Energy Landscape Underpinning Module Dynamics in the Human Brain Connectome. Submitted.
27. Marcelo G. Mattar & **Danielle S. Bassett**. Brain Network Architecture: Implications for Human Learning. Invited book chapter for Routledge.
26. **Danielle S. Bassett** & Marcelo G. Mattar. A Network Neuroscience of Human Learning. Invited to TICS.
25. **Danielle S. Bassett** & Olaf Sporns. Network Neuroscience. Invited review for Nature Neuroscience.
24. **Danielle S. Bassett**, Ankit N. Khambhati, Scott T. Grafton. Emerging Frontiers of Neuroengineering: A Network Science of Brain Connectivity. Invited review for the Annual Reviews of Biomedical Engineering.
23. Gaelle E. Doucet, **Danielle S. Bassett**, Nailin Yao, David C. Glahn, Sophia Frangou. Default mode network integration associated with disease expression and resilience to bipolar disorder. Submitted.
22. Ann Sizemore, Chad Giusti, Richard F. Betzel, **Danielle S. Bassett**. Closures and cavities in the human connectome. Submitted.
21. Graham L. Baum, Rastko Ciric, David R. Roalf, Richard F. Betzel, Tyler M. Moore, Russell T. Shinohara, Ari E. Kahn, Megan Quarmley, Philip A. Cook, Mark A. Elliott, Kosha Ruparel, Raquel E. Gur, Ruben C. Gur, **Danielle S. Bassett**, & Theodore D. Satterthwaite. Modular Segregation of Structural Brain Networks Supports the Development of Executive Function in Youth. Submitted.
20. Richard F. Betzel, John D. Medaglia, Lia Papadopoulos, Graham Baum, Ruben Gur, Raquel Gur, David Roalf, Theodore D. Satterthwaite, **Danielle S. Bassett**. The modular organization of human anatomical brain networks: Accounting for the cost of wiring. Submitted.
19. Rastko Ciric, Daniel H. Wolf, Jonathan D. Power, David R. Roalf, Graham Baum, Kosha Ruparel, Russell T. Shinohara, Mark E. Elliott, Simon B. Eickhoff, Christos Davatzikos, Ruben C. Gur, Raquel E. Gur, **Danielle S. Bassett**, Theodore D. Satterthwaite. Benchmarking confound regression strategies for the control of motion artifact in studies of functional connectivity. Submitted.
18. Marcelo G. Mattar, Sharon L. Thompson-Schill, **Danielle S. Bassett**. The network architecture of value learning. Submitted.

17. 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**. Structural drivers of diverse neural dynamics and their evolution across development. Submitted.
16. Laura Wiles, Shi Gu, Fabio Pasqualetti, **Danielle S. Bassett**, David F. Meaney. Autaptic Connections Shift Network Excitability and Bursting. Submitted.
15. John D. Medaglia, Shi Gu, Fabio Pasqualetti, Rebecca L. Ashare, Caryn Lerman, Joseph Kable, **Danielle S. Bassett**. Cognitive Control in the Controllable Connectome. Submitted.
14. Shi Gu, Richard F. Betzel, Matthew Cieslak, Philip Delio, Scott T. Grafton, Fabio Pasqualetti, **Danielle S. Bassett**. Optimal Trajectories of Brain State Transitions. Submitted.
13. Ankit N.Khambhati, **Danielle S. Bassett**, Brian S. Oommen, Stephanie H. Chen, Kathryn A. Davis, and Brian Litt. Recurring functional architecture predicts dynamic network interactions during ictal and interictal states in human neocortical epilepsy. Submitted.
12. Raphael T. Gerraty, Juliet Y. Davidow, Karin Foerde, Adriana Galvan, **Danielle S. Bassett**, and Daphna Shohamy. Dynamic flexibility in striatal-cortical circuits supports reinforcement learning. Submitted.
11. Nicole Cooper, **Danielle S. Bassett**, Emily Falk. Functional connectivity between valuation brain regions during health messages predicts behavior change. Submitted.
10. Sergio Pequito, Arian Ashourvan, **Danielle S. Bassett**, George J. Pappas. Spectral Control of Cortical Activity. Submitted.
9. Shi Gu, Matthew Cieslak, Benjamin Baird, Sarah F. Muldoon, Scott T. Grafton, Fabio Pasqualetti, **Danielle S. Bassett**. The Energy Landscape of Neurophysiological Activity Implicit in Brain Network Structure. Submitted.
8. Richard Betzel, Theodore D. Satterthwaite, Joshua I. Gold, **Danielle S. Bassett**. A positive mood, a flexible brain. Submitted.
7. John D. Medaglia, Weiyu Huang, Santiago Segarra, Christopher Olm, James Gee, Murray Grossman, Alejandro Ribeiro, Corey T McMillan, **Danielle S. Bassett**. Brain network efficiency is influenced by pathological source of corticobasal syndrome. Submitted.
6. Cassiano Becker, Sergio Pequito, George J. Pappas, Michael B. Miller, Scott T. Grafton, **Danielle S. Bassett**, Victor Preciado. Accurately Predicting Functional Connectivity from Diffusion Imaging. Submitted.
5. Marcelo Mattar, Nicholas F. Wymbs, Andrew Bock, Geoffrey Aguirre, Scott T. Grafton, **Danielle S. Bassett**. Predicting future learning from baseline network architecture. Submitted.
4. John D. Medaglia, Ted D. Satterthwaite, Tyler M. Moore, Kosha Ruparel, Ruben C. Gur, Raquel E. Gur, **Danielle S. Bassett**. Flexible Traversal Through Diverse Brain States Underlies Executive Function in Normative Neurodevelopment. Submitted.
3. John D. Medaglia, Fabio Pasqualetti, Roy Hamilton, Sharon Thompson-Schill & **Danielle S. Bassett**. The Utility of Dynamic Network Theory in Understanding Brain and Cognitive Reserve. Submitted.
2. Petko Bogdanov, Nazli Dereli, **Danielle S. Bassett**, Scott T. Grafton, Ambuj K. Singh. Learning about Learning: Human Brain Sub-Network Biomarkers in fMRI Data. Submitted. arXiv 1407.5590.

1. Brent G. Nelson, **Danielle S. Bassett**, Jazmin Camchong, Edward T. Bullmore, Kelvin O. Lim
Comparison of Large-Scale Human Brain Functional and Anatomical Networks in Schizophrenia.
Submitted to Biological Psychiatry.

Accepted and/or Published: (94)

Journal Articles:

2016

2016.30 Richard F. Betzel & **Danielle S. Bassett**. Multi-scale brain networks. Neuroimage. In Press.

2016.29 Anup Sharma, Daniel H. Wolf, Rastko Ciric, Joseph W. Kable, Tyler M. Moore, Simon N. Vandekar, Natalie Katchmar, Aylin Daldal, Kosha Ruparel, Christos Davatzikos, Mark A. Elliott, Monica E. Calkins, Russell T. Shinohara, **Danielle S. Bassett**, and Theodore D. Satterthwaite. Connectome-Wide Analysis Reveals Common Dimensional Reward Deficits Across Mood and Psychotic Disorders. American Journal of Psychiatry. In Press.

2016.28 Cassiano O. Becker, Ankit N. Khambhati, **Danielle S. Bassett**, Victor M. Preciado. Identification of networks of Wilson-Cowan neuronal oscillators by inverse sigmoidal transformation. Accepted to IEEE Signal Processing in Medicine and Biology Symposium.

2016.27 Lucy Chai, Ankit Khambhati, Rastko Ciric, Ruben Gur, Raquel Gur, Theodore D. Satterthwaite, **Danielle S. Bassett**. Evolution of brain network dynamics in neurodevelopment. Network Neuroscience. In Press.

2016.26 Urs Braun, Axel Schäfer, **Danielle S. Bassett**, Franziska Rausch, Janina Schweiger, Edda Bilek, Susanne Erk, Nina Romanczuk-Seiferth, Oliver Grimm, Leila Haddad, Kristina Otto, Sebastian Mohnke, Andreas Heinz, Mathias Zink, Henrik Walter, Andreas Meyer-Lindenberg, Heike Tost. Dynamic reconfiguration of brain networks: a potential schizophrenia genetic risk mechanism modulated by NMDA receptor function. Proc Natl Acad Sci U S A. 2016 Nov 1;113(44):12568-12573.

2016.25 Elizabeth N. Davison, Benjamin O. Turner, Kimberly J. Schlesinger, Michael B. Miller, Scott T. Grafton, **Danielle S. Bassett**, Jean M. Carlson. Individual differences in dynamic functional brain connectivity across the human lifespan. PLoS Comp Biol. Accepted.

2016.24 16. Ari E. Kahn, Marcelo G. Mattar, Jean M. Vettel, Nicholas F. Wymbs, Scott T. Grafton, **Danielle S. Bassett**. Structural Pathways Supporting Swift Acquisition of New Visuo-Motor Skills. Cerebral Cortex. In Press.

2016.23 Chad Giusti, Lia Papadopoulos, Eli T. Owens, Karen E. Daniels, **Danielle S. Bassett**. Topological and geometric measurements of force chain structure. Phys Rev E. 2016 Sep;94(3-1):032909.

2016.22 Lia Papadopoulos, James Puckett, Karen E. Daniels, **Danielle S. Bassett**. Evolution of network architecture in a granular material under compression. Phys Rev E. 2016 Sep;94(3-1):032908.

2016.21 Michael W. Cole, **Danielle S. Bassett**, Doug Schultz. Brain activations are shaped by activity flow through both intrinsic and task-evoked functional networks. Nature Neuroscience. Nat Neurosci. 2016 Oct 10. doi: 10.1038/nn.4406. [Epub ahead of print]

2016.20 **Danielle S. Bassett** & Edward T. Bullmore. Small-world brain networks revisited. Neuroscientist. Neuroscientist. 2016 Sep 21. pii: 1073858416667720. [Epub ahead of print].

2016.19 Weiyu Huang, Leah Goldsberry, Nicholas F. Wymbs, Scott T. Grafton, **Danielle S. Bassett** and Alejandro Ribeiro. Graph Frequency Analysis of Brain Signals. *IEEE Journal of Selected Topics in Signal Processing* (Volume: 10, Issue: 7, Oct. 2016).

2016.18 Sarah Feldt Muldoon, Fabio Pasqualetti, Shi Gu, Matthew Cieslak, Scott T. Grafton, Jean M. Vettel, Danielle S. Bassett. Stimulation-based control of dynamic brain networks. *PLoS Comp Biol.* 2016 Sep 9;12(9):e1005076.

2016.17 Ankit Khambhati, Kathryn Davis, Timothy Lucas, Brian Litt, **Danielle S. Bassett**. Virtual cortical resection reveals push-pull network control preceding seizure evolution. *Neuron.* 2016 Sep 7;91(5):1170-82.

2016.16 Fabian Soto, **Danielle S. Bassett**, F. Gregory Ashby. Dissociable changes in functional network topology underlie early category learning and development of automaticity. *Neuroimage.* 2016 Nov 1;141:220-41.

2016.15 Lucy Chai, Marcelo Mattar, Idan Asher Blank, Evelina Fedorenko, **Danielle S. Bassett**. Functional Network Dynamics of the Language System. *Cereb Cortex.* 2016 Aug 22. [Epub ahead of print]

2016.14 Richard F. Betzel, Shi Gu, John D. Medaglia, Fabio Pasqualetti, **Danielle S. Bassett**. Optimally controlling the human connectome: the role of network topology. *Sci Rep.* 2016 Jul 29;6:30770.

2016.13 Ankit Khambhati and **Danielle S. Bassett**. A powerful DREADD: Revealing structural drivers of functional dynamics. *Neuron.* 2016 Jul 20;91(2):213-5.

2016.12 Marcelo Mattar, Richard Betzel, **Danielle S. Bassett**. A flexible brain. *Brain.* 2016 Aug;139(Pt 8):2110-2.

2016.11 Elizabeth Karuza, Sharon Thompson-Schill, **Danielle S. Bassett**. Local patterns to global architectures: Influences of network topology on human learning. *Trends in Cognitive Science. Trends Cogn Sci.* 2016 Aug;20(8):629-40.

2016.10 Qawi Telesford, Mary-Ellen Lynall, Jean Vettel, Michael Miller, Scott Grafton, **Danielle S. Bassett**. Node dynamics in time-dependent brain networks: An analysis of network dynamics and task-driven cognitive states. *Neuroimage.* 2016 May 31. pii: S1053-8119(16)30198-7.

2016.9 Zitong Zhang, Qawi K. Telesford, Chad Giusti, Kelvin O. Lim, **Danielle S. Bassett**. Choosing Wavelet Methods, Filters, and Lengths for Functional Brain Network Construction. *PLoS One.* 2016 Jun 29;11(6):e0157243.

2016.8 Chad Giusti, Robert Ghrist, **Danielle S. Bassett**. Two's company, three (or more) is a simplex: Algebraic-topological tools for understanding higher-order structure in neural data. *J Comput Neurosci.* 2016 Aug;41(1):1-14.

2016.7 Steven Baldassano, **Danielle S. Bassett**. Topological distortion and reorganized modular structure of gut microbial co-occurrence networks in inflammatory bowel disease. *Sci Rep.* 2016 May 18;6:26087.

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2016.4 Sarah Feldt Muldoon, Eric W. Bridgeford, **Danielle S. Bassett**. Small-world propensity in real-world weighted networks. *Scientific Reports.* 2016 Feb 25;6:22057.

2016.3 Sergio Pequito, Ankit N. Khambhati, George J. Pappas, Dragoslav D. Siljak, **Danielle S. Bassett**, and Brian Litt. Structural Analysis and Design of Dynamic-Flow Networks: Implications into the Brain Dynamics. In the Proceedings of the 2016 American Control Conference, Boston.

2016.2 Sijia Zhang, **Danielle S. Bassett**, Beth Winkelstein. Stretch-induced network reconfiguration of collagen fibers in the human facet capsular ligament. *Journal of the Royal Society Interface*. 2016 Jan;13(114):20150883.

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2015.11 Ankit Khambhati, Kathryn Davis, Timothy Lucas, Brian Litt, **Danielle S. Bassett**. Dynamic network drivers of seizure generation, propagation and termination in human epilepsy. *PLoS Comp Biol*, 2015, 11(12):e1004608.

2015.10 Shi Gu, Theodore Satterthwaite, John Medaglia, Muzhi Yang, Raquel Gur, Ruben Gur, **Danielle S. Bassett**. Emergence of System Roles in Normative Neurodevelopment. *PNAS.*, 2015, 112(44):13681-6.

2015.9 Marcelo Mattar, Michael W. Cole, Sharon Thompson-Schill, **Danielle S. Bassett**. A Functional Cartography of Cognitive Systems. *PLoS Comp Biol*. 2015, 11(12):e1004533.

2015.8 Shi Gu, Fabio Pasqualetti, Matthew Cieslak, Scott T. Grafton, **Danielle S. Bassett**. Controllability of Structural Brain Networks. *Nature Communications*. *Nat Commun*. 2015, 6:8414.

2015.7 Urs Braun, Axel Schaefer, Henrik Walter, Susanne Erk, Nina Romanczuk-Seiferth, Leila Haddad, Janina Schweiger, Oliver Grimm, Andreas Heinz, Heike Tost, Andreas Meyer-Lindenberg, **Danielle S. Bassett**. Dynamic Reconfiguration of Frontal Brain Networks During Executive Cognition in Humans. *PNAS*. 112(37):11678-83.

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2015.5 Theodore D. Satterthwaite, Simon N. Vandekar, Daniel H. Wolf, **Danielle S. Bassett**, Kosha Ruparel, Zarrar Shezad, Cameron Craddock, Russell T. Shinohara, Tyler M. Moore, Chad Jackson, David R. Roalf, Monica E. Calkins, Michael P. Milham, Hakon Hakonarson, Ruben C. Gur, Raquel E. Gur. Connectome-Wide Network Analysis of Youth with Psychosis Spectrum Symptoms. *Molecular Psychiatry*, 2015, doi: 10.1038/mp.2015.66. [Epub ahead of print].

2015.4 John D. Medaglia, Mary-Ellen Lynall, **Danielle S. Bassett**. Cognitive Network Neuroscience. *Journal of Cognitive Neuroscience*. 2015. Mar 24:1-21.

2015.3 Theodore D. Satterthwaite, Joseph W. Kable, Lillie Vandekar, Natalie Katchmar, **Danielle S. Bassett**, Claudia F. Baldassano, Kosha Ruparel, Mark A. Elliott, Yvette I. Sheline, Ruben C. Gur, Raquel E. Gur, Christos Davatzikos, Ellen Leibenluft, Michael E. Thase, Daniel H. Wolf. Common and Dissociable Dysfunction of the Value System in Bipolar and Unipolar Depression. *Neuropsychopharmacology*, 2015, 40(9):2258-68.

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2012.3 Nicholas F. Wymbs, **Danielle S. Bassett**, Peter J. Mucha, Mason A. Porter and Scott T. Grafton. Motor chunking is correlated with activation of the human sensorimotor putamen. *Neuron*, 2012, 74(5):936-46.

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Book Chapters:

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Danielle S. Bassett & Felix Siebenhühner. Multiscale network organization in the human brain. In . ‘Multiscale analysis and nonlinear dynamics: From genes to the brain’. Wiley, 2013.

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Andreas Meyer-Lindenberg and **Danielle S. Bassett**. Nonlinear and cooperative dynamics in the human brain: Evidence from multimodal neuroimaging. In ‘Coordination: Neural, behavioral and social dynamics’, Complexity Program Series: 'Understanding Complex Systems'. Springer, 2006.

Book Reviews:

Danielle S. Bassett, Felix Siebenhühner. Spinning a mental web. Front Hum Neurosci, 2011, 5:141.

Academic Commentary:

Mika Rubinov, **Danielle S. Bassett**. Emerging evidence of connectomic abnormalities in schizophrenia. J Neurosci, 2011, 31(17):6263-6265.

Fabrizio De Vico Fallani, **Danielle S. Bassett**, Tianzi Jiang. Graph theoretical approaches in brain networks. Computational and Mathematical Methods in Medicine, 2012, 2012:590483.

Sarah Feldt Muldoon, **Danielle S. Bassett**. Why Network Neuroscience? Compelling evidence and current frontiers. Comment on “Understanding brain networks and brain organization” by Luiz Pessoa in Physics of Life Reviews. 2014 Sep;11(3):455-7.

Conference Proceedings and Teaching Material:

Ann M. Hermundstad, Kevin S. Brown, **Danielle S. Bassett** and Jean M. Carlson. Architectural constraints on learning and memory function. BMC Neuroscience, 2011, 12(Suppl 1):P31.

Ann M. Hermundstad, Kevin Brown, **Danielle S. Bassett**, Jean M. Carlson. Structural drivers of function in information processing networks. Appearing in the Proceedings of the Forty-Fifth Asilomar Conference on Signals, Systems, and Computers, 2012.

Danielle S. Bassett. Clinical applications of complex network analysis. Society for Neuroscience Short Course, http://www.sfn.org/siteobjects/published/0000BDF20016F63800FD712C30FA42DD/205A577D83CA869B26F16CADE6373874/file/SC3_2010_Bassett.pdf.

Jean M. Vettel, **Danielle S. Bassett**, Reuben Kraft, Scott T. Grafton. Physics-based models of brain structure connectivity informed by diffusion weighted imaging. Army Science Conference, <http://www.armyscienceconference.com/manuscripts/R/RP-006.pdf>.

Other:

Fernández-Capetillo Ó, Yan N, Dionne J, **Bassett DS**, Sebastian S, Hendon C, Schlichting H, Baker M. Hopes for the year ahead. Nature. 2015 Jan 1;517(7532):111-3.

OUTREACH & SERVICE

EXTERNAL ACADEMIC SERVICE:

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) Program Support: Betty Tuller and Krastan Blagoev	2014
SIAG-DS Advisory Committee	2014-2015
Co-organized Sage JRF Workshop on Network Science for April, 2013	2013
Co-edited special issue of Computational & Mathematical Methods in Medicine	2012
Winston Churchill Scholarship Screening Committee	2011-2012
Sage Center for the Mind, UCSB, website assistant	2011-present
KITP mini-symposium, organizational assistant	2010-2011
International Hospitality Volunteer, Pennsylvania State University	2002-2004
Habitat for Humanity	2000

INTERNAL ACADEMIC SERVICE:

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:

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

COMMUNITY EVENTS:

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?y'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

