

Curriculum Vitae

Deanna Marie Barch

PERSONAL

Mailing Address: Department of Psychological & Brain Sciences
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Birthdate: July 20, 1965, St. Louis, Missouri

EDUCATION

1983-1987 B.A., Psychology
Northwestern University, Evanston, Illinois

1988-1991 M.A., Clinical Psychology,
University of Illinois at Urbana-Champaign, Champaign, Illinois

1991-1993 Ph.D., Clinical Psychology (Minor, Quantitative Psychology)
University of Illinois at Urbana-Champaign, Champaign, Illinois

1993-1994 Internship in Clinical Psychology
Western Psychiatric Institute and Clinic, University of Pittsburgh Medical School
Pittsburgh, Pennsylvania

1994-1997 Postdoctoral Fellowship, NIH Training Fellowship
Western Psychiatric Institute and Clinic, University of Pittsburgh Medical School
Pittsburgh, Pennsylvania

ACADEMIC POSITIONS

1997-1998 Assistant Professor of Psychiatry
Western Psychiatric Institute and Clinic, University of Pittsburgh Medical School,
Pittsburgh, Pennsylvania

1998-2003 Assistant Professor Psychology
Washington University, St. Louis, Missouri

2003-2008 Associate Professor Psychology, Psychiatry, and Radiology
Washington University, St. Louis, Missouri

- 2005-2006 Visiting Fellow, Center for Advanced Studies (Clare Hall)
University of Cambridge, Cambridge England
- 2008-Present Professor of Psychological & Brain Sciences, Psychiatry, and Radiology
Washington University, St. Louis, Missouri
- 2018-2019 Dean of Faculty Development
- 2014-Present Chair, Department of Psychological & Brain Sciences
Washington University, St. Louis, Missouri

AWARDS AND HONORS

- 1983-1987 National Merit Scholarship
- 1990 The Honor Society of Phi Kappa Phi
- 1992 Graduate College Dissertation Research Grant, University of Illinois at Urbana-Champaign
- 1992 Ed Scheiderer Memorial Research Award, Outstanding Clinical/Community Psychology Research Project, University of Illinois at Urbana-Champaign
- 1997 Young Investigators Award, International Congress on Schizophrenia Research
- 1997 Outstanding Dissertation Award, Society for the Science of Clinical Psychology
- 1999-2000 Outstanding Faculty Mentor Award, Graduate Student Senate, Washington University
- 2002 American Psychological Association Distinguished, Scientific Award for Early Career Contribution to Psychology in the area of Psychopathology
- 2002 The Joseph Zubin Memorial Fund Award
- 2003 Artsci Council Faculty Award, Washington University
- 2004 Special Recognition, Outstanding Faculty Mentor Award, Graduate Student Senate, Washington University
- 2007 NAMI St. Louis Outstanding Scientist Award
- 2009 Fellow, Association of Psychological Science
- 2010 Washington University Distinguished Faculty Award
- 2010 Special Recognition, Outstanding Faculty Mentor Award, Graduate Student Senate, Washington University
- 2011 Gregory B. Couch Professor of Psychiatry

2012	President, Society for Research in Psychopathology
2013	Member, American College of Neuropsychopharmacology
2016	Association of Women In Neuroscience Mentor Award
2016	Arthur Holly Compton Faculty Achievement Award
2018	NIMH Method to Extend Research in Time (MERIT) Award
2018	Fellow, Society of Experimental Psychologists
2018	Fellow, American College of Neuropsychopharmacology

FELLOWSHIPS

1986	Benton J. Underwood Summer Research Fellowship, Northwestern University
1988-1989	University Fellowship, University of Illinois at Urbana-Champaign
1989	Summer University Fellowship, University of Illinois at Urbana-Champaign
1994-1996	National Institute of Mental Health Post-Doctoral Fellowship
1994-1997	Clinical Research Training for Psychologists Postdoctoral Fellowship, Western Psychiatric Institute and Clinic, University of Pittsburgh Medical School
2012	Provost's Office Fellowship to Participate in the Washington University Women's Leadership Certificate

RESEARCH GRANTS

Current and Past

National Alliance for Research on Schizophrenia and Depression Working memory contributions to language deficits in schizophrenia PI: Deanna M. Barch	1995-1997
Center for the Neuroscience of Mental Disorders (P50 MH45156, Pilot Project) CNS catecholamines and cognitive dysfunction in schizophrenia PI: Cameron S. Carter; Co-I: Deanna M. Barch	1995-1995
National Institutes of Health (R01 MH47073) Mechanisms of context processing in schizophrenia PI: Jonathan D. Cohen, Co-I: Deanna M. Barch	1997-2002
National Institutes of Health (P50 MH45156) Cortical circuitry and cognition in schizophrenia	1998-2003

Project PI: Jonathan D. Cohen, Major Collaborator: Deanna M. Barch

Pharmacia and Upjohn PNU-101387G: Randomized double-blind parallel group, placebo controlled 14-day study on working memory in healthy male volunteers PI: Deanna M. Barch	1998-1999
Pharmacia and Upjohn PNU-101387G: Randomized double-blind parallel group, placebo controlled 14-day study on working memory in healthy elderly volunteers PI: Deanna M. Barch	1998-1999
The McDonnell Center for Higher Brain Function Development, validation, and application of novel event-related FMRI methods toward studies of higher brain function PI: Randy L. Buckner, Co-Investigator: Deanna M. Barch	1998-2001
National Institutes of Health (R03 MH60887) Working and long-term memory deficits in schizophrenia PI: Deanna M. Barch	1999-2000
National Institutes of Aging (R03 AG18138) A computational model of cognitive control deficits in healthy aging: Behavioral and neuroimaging investigations PI: Todd S. Braver, Co-PI Deanna M. Barch	2000-2001
National Institutes of Aging (P50 AG05681 Pilot Project) Cognitive control in early stage Alzheimer's disease PI: Todd S. Braver, Major Collaborator: Deanna M. Barch	2000-2001
National Alliance for Research on Schizophrenia and Depression Novel cognitive and neuroimaging approaches to assessing risk for schizophrenia PI: Deanna M. Barch	2000-2002
Dana Clinical Hypotheses Program in Imaging Prefrontal cortex dysfunction as a risk factor for the development of schizophrenia PI: Deanna M. Barch	2000-2003
National Institutes of Health (R01 MH60697) Treatment outcomes in vascular depression PI: Yvette Sheline, Co-Investigator: Deanna M. Barch	2001-2006
National Institutes of Health (P20 MH62130) Structure function and cognition in schizophrenia (Project 2 In Conte Feasibility Center) PI: Deanna M. Barch	2001-2004
McDonnell Center for Higher Brain Function Neural substrates of decision-making	2002-2004

PI: Len Green, Co-Investigator: Deanna M. Barch	
National Alliance for Research on Schizophrenia and Depression Human reward system alternations in major depression PI: Yvette I. Sheline, Co-Investigator: Deanna M. Barch	2003-2005
National Institutes of Health (R01 MH64821) FMRI studies of emotional circuitry in depression PI: Yvette I. Sheline, Co-Investigator: Deanna M. Barch	2003-2008
National Institutes of Health (R01 MH066031) Schizophrenia, prefrontal cortex, and emotional regulation PI: Deanna M. Barch	2004-2008
National Institutes of Health (P20 MH62130) Structure function and cognition in schizophrenia (Project 2 In Conte Center for the Neuroscience of Mental Disorders) PI: Deanna M. Barch	2004-2009
National Alliance for Research on Schizophrenia and Depression Young Investigators Award Error Prediction Mechanisms in Schizophrenia PI: Josh Brown, Mentor: Deanna M. Barch	2004-2006
National Institutes of Health (R13) Brain – Based Measures for Treatment Development of Impaired Cognition in Schizophrenia PI: Cameron Carter, CO-PI: Deanna Barch	2006-2008
National Institutes of Health Contract Treatment Units Research Network PI: Steve Marder, Chief Neuropsychologist: Deanna Barch	2005-2009
National Alliance for Research on Schizophrenia and Depression Established Investigators Award Developmental Disturbances in the Neural Systems Supporting Working Memory As Endophenotypic Markers of Risk for Schizophrenia PI: Deanna M. Barch	2006-2008
McDonnell Center for Higher Brain Function Strategy Influences on Brain Function in Aging PI: Deanna Barch	2006-2008
National Alliance for Research on Schizophrenia and Depression Young Investigators Award Proactive Control in Generalized Anxiety Disorder PI: Christina Fales, Mentor: Deanna M. Barch	2007-2009
National Institutes of Health (R01 MH056584-09) Neuromorphometry in Schizophrenia by Computer Algorithm PI: John G. Csernansky, Co-Investigator: Deanna M. Barch	2007-2012

Communities Healing Adolescent Depression and Suicide Neural Changes Associated With Treatment in Preschool Onset Depression PI: Joan Luby, Co-PI: Deanna M. Barch	2008-2010
National Institutes of Health (R01 MH084840) Cognitive Neuroscience Task Reliability & Clinical Applications Consortium PI: Deanna M. Barch	2008-2011
National Institutes of Health (R01 MH64821-6) fMRI studies of emotional circuitry in depression PI: Yvette I. Sheline, Co-Investigator: Deanna M. Barch	2008-2013
National Institutes of Health (R13) Brain – Based Measures for Treatment Development of Impaired Cognition in Schizophrenia: Extension to Animal Models and Biomarkers. PI: Cameron Carter, CO-PI: Deanna Barch	2009-2011
National Institutes of Health (R01 MH066031-5) Schizophrenia, prefrontal cortex, and emotional regulation PI: Deanna M. Barch	2009-2014
National Institutes of Health (R01 MH090786-01) Neuroimaging in Early Onset Depression: Longitudinal Assessment of Brain Changes PIs: Deanna M. Barch, Joan Luby, Kelly Botteron	2010-2015
National Institutes of Health (R01 MH62130) Cognitive Neuroscience Task Reliability & Clinical Applications Consortium: Imaging Biomarkers Supplement PI: Deanna M. Barch	2010-2012
National Institute of Health Blueprint Human Connectome Project PI: David Van Essen (Role: Co-Investigator)	2010-2015
Sidney R. Baer Foundation Brain imaging in preschoolers at high-risk for depression: A search for early alterations in affective neurocircuitry as markers for risk and targets for intervention Co PIs: Joan Luby & Deanna Barch	2012-2014
National Science Foundation (1131291) CRCNS Data Sharing: An open data repository for cognitive neuroscience: the Open fMRI Project PI (Polldrack, Co-PI, barch)	2011-2014
National Institutes of Health (2 T32 GM081739) Training at the Interface of Psychology, Genetics and Neuroscience PI: Deanna M. Barch	2012-2017
National Institutes of Health (2 T32 MH100019)	2013-2018

Developmental Neuroscience and Child Psychopathology
PIs: Deanna M. Barch and Joan L. Luby

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| National Institutes of Health (2 R01 MH084840) [RENEWAL]
Cognitive Neuroscience Task Reliability & Clinical Applications Consortium
PI: Deanna M. Barch | 2013-2017 |
| NARSAD Distinguished Investigator's Award
Neural and Psychological Predictors of Risk for Depression in Children
PI: Deanna M. Barch | 2014-2015 |
| National Institutes of Aging (R01 AG049369)
Remediation Age Related Cognitive Decline: Mindfulness-Based Stress Reduction and Exercise
PI: Lenze (Co-I Barch) | 2014-2019 |
| National Institutes of Health (R01 MH104414)
Connectomics in Psychiatric Classification
PI: Mamah (Co-I Barch) | 2014-2019 |
| National Institutes of Health (R01 MH098454)
A Randomized Controlled Trial of PCIT-ED for Preschool Depression –
Competitive Supplement to use ERP and FMRI to measure
mechanisms and predictors of change
PIs: Deanna M. Barch and Joan L. Luby | 2015-2018 |
| National Institutes of Health (R01 MH090786-06)
Neuroimaging in Early Onset Depression:
Longitudinal Assessment of Brain Changes -- Renewal
PIs: Deanna M. Barch, Joan Luby | 2015-2020 |
| National Institutes of Health (U01DA041120-01)
Adolescent Brain and Cognitive Development – USA Consortium
Site PIs: Madden, Heath and Barch | 2015-2020 |
| National Institutes of Health (U01 MH109589-01)
Human Connectome Project - Development
PIs: David Van Essen and Deanna M. Barch | 2016-2020 |
| National Institutes of Health
Human Connectome Project - Aging
PIs: David Van Essen and Beau Ances (Co-I Barch) | 2016-2020 |
| National Institutes of Health <i>Merit Award</i> (R01 MH066031-11)
Effort-Based Decision Making and Motivated Behavior in Everyday Life
PI: Barch | 2018-2023 |
| National Institutes of Health (R01 MH113883-01)
Early life adversity, biological embedding, and risk for developmental precursors of
mental disorder
PIs: Luby, Smyser, Warner (Co-I Barch) | 2018-2023 |

National Institutes of Health (R01 MH117436-01) 2019-2024
The Developmental Psychopathology of Suicidal Ideations and Cognitions in Childhood
PIs: Joan Luby and Deanna M. Barch

National Institutes of Health (R01 MH084840-08) 2019-2024
1/5-Cognitive Neurocomputational Task Reliability & Clinical Applications Consortium
PI: Barch

JOURNAL ARTICLES (peer reviewed)

#Undergraduate Student

***Graduate Student**

1993-2000

- [1]. Albright, J. S., Alloy, L. B., Barch, D. M., & Dykman, B. (1993). Social comparison by dysphoric and nondysphoric college students: The grass isn't always greener on the other side. *Cognitive Therapy and Research, 17*, 485-509.
- [2]. Barch, D. M., & Berenbaum, H. (1994). The relationship between information processing and language production. *Journal of Abnormal Psychology, 103*, 241-250.
- [3]. Stolar, N., Berenbaum, H., Banich, M., & Barch, D. M. (1994). Neuropsychological correlates of alogia and affective flattening in schizophrenia. *Biological Psychiatry, 35*, 164-172.
- [4]. Berenbaum, H. & Barch, D. M. (1995). The categorization of thought disorder. *Journal of Psycholinguistic Research, 24*, 349-376.
- [5]. Barch, D. M. & Berenbaum, H. (1996). Language production and thought disorder in schizophrenia. *Journal of Abnormal Psychology, 105*, 81-88.
- [6]. Barch, D. M., Cohen, J. D., Servan-Schreiber, D., Steingard, S., Steinhauer, S., & van Kammen, D. (1996). Semantic priming in schizophrenia: An examination of spreading activation using word pronunciation and multiple SOAs. *Journal of Abnormal Psychology, 105*, 592-601.
- [7]. Barch, D. M., & Berenbaum, H. (1997). Language generation in schizophrenia and mania. *Journal of Psycholinguistic Research, 26*, 410-412.
- [8]. Barch, D. M., & Berenbaum, H. (1997). The effect of language production manipulations on negative thought disorder and discourse coherence disturbances in schizophrenia. *Psychiatry Research, 71*, 115-127.
- [9]. Barch, D. M., Braver, T. S., Nystrom, L. E., Forman, S. D., Noll, D. C., & Cohen, J. D. (1997). Dissociating working memory from task difficulty in human prefrontal cortex. *Neuropsychologia, 35*, 1373-1380.
- [10]. Carter, C. S., Braver, T. S., Barch, D. M., Botvinick, M. M., Noll, D. C., & Cohen, J. D. (1998). Anterior cingulate cortex, error detection, and the on-line monitoring of

performance. *Science*, 280, 747-749.

- [11]. Barch, D. M., & Carter, C. S. (1998). Selective attention in schizophrenia: Relationship to verbal working memory. *Schizophrenia Research*, 33, 53-61.
- [12]. Perlstein, W., Carter, C. S., Barch, D. M., & Baird, J. (1998). A comparison of the card and single trial Stroop task versions in schizophrenia patients. *Neuropsychology*, 12, 414-425.
- [13]. Barch, D. M., Carter, C. S., Perlstein, W., Baird, J., Cohen, J. D. & Schooler, N. (1999) Increased Stroop facilitation effects in schizophrenia are not due to increased automatic spreading activation. *Schizophrenia Research*, 39, 51-64
- [14]. Braver, T. S., Barch, D. M., & Cohen, J. D. (1999). Cognition and control in schizophrenia: A computational model of dopamine and prefrontal function. *Biological Psychiatry*, 46, 312-328.
- [15]. Cohen, J. D., Barch, D. M., Carter, C. S., & Servan-Schreiber, D. (1999). Schizophrenic deficits in the processing of context: Converging evidence from three theoretically motivated cognitive tasks. *Journal of Abnormal Psychology*, 108, 120-133.
- [16]. Kerns, J. G., Berenbaum, H., Barch, D. M., Banich, M., & Stolar, N. (1999). Word production in schizophrenia and its relationship to positive symptoms. *Psychiatry Research*, 87, 29-37.
- [17]. Barch, D. M., Carter, C. S., Braver, T. S., Sabb, F. W., Noll, D. C., & Cohen, J. D. (1999). Overt verbal responding during fMRI scanning: Empirical investigations of problems and potential solutions. *Neuroimage*, 10, 642-657.
- [18]. Barch, D. M., Carter, C. S., Hachten, P. C., & Cohen, J. D. (1999). The "benefits" of distractibility: The mechanisms underlying increased Stroop effects in schizophrenia. *Schizophrenia Bulletin*, 24, 749-762.
- [19]. Barch, D. M., Sabb, F. W., Braver, T. S., & Noll, D. C. (2000). The anterior cingulate cortex and response competition: Evidence from an fMRI study of overt verb generation. *Journal of Cognitive Neuroscience*, 12, 298-305.

2001

- [20]. Barch, D. M., Braver, T. S., Akbudak, E., Conturo, T. E., & Snyder, A. Z. (2001). Anterior cingulate cortex and response conflict: Common activations across response modalities and processing domains. *Cerebral Cortex*, 11, 837-848.
- [21]. Barch, D. M., Carter, C. S., Braver, T. S., MacDonald, A., Sabb, F. W., Noll, D. C., & Cohen, J. D. (2001). Selective deficits in prefrontal cortex function in medication naïve patients with schizophrenia. *Archives of General Psychiatry*, 58, 280-288.
- [22]. Botvinick, M. M., Braver, T. S., Carter, C. S., Barch, D. M., & Cohen, J. D. (2001). Conflict monitoring and cognitive control. *Psychological Review*, 108, 624-652.
- [23]. Braver, T. S., Barch, D. M., Gray, J. M., Molfese, D. L., & Snyder, A. Z. (2001). Anterior cingulate cortex and response conflict: Effects of frequency, inhibition, and errors.

Cerebral Cortex, 11, 825-836.

- [24]. Braver, T. S., Barch, D. M., Kelley, W. M., Buckner, R. L., Cohen, N. J., Miezin, F. M., Snyder, A. Z., Ollinger, J. M., Akbudak, E., Conturo, T. E., & Peterson, S. E. (2001). Direct comparison of prefrontal cortex regions engaged by working memory and episodic encoding. *Neuroimage*, 14, 48-59.
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- [26]. Sheline, Y. I., Barch, D. M., Donnelly, J. M., Ollinger, J. M., & Mintun, M. A. (2001). Amygdala hyperarousal to masked emotional faces in depressed subjects resolves with antidepressant treatment: An fMRI study. *Biological Psychiatry*, 50, 651-658.

2002

- [27]. Barch, D. M., Csernansky, J. G., Conturo, T., & Snyder, A. Z. (2002). Working and long-term memory deficits in schizophrenia: Is there a common underlying prefrontal mechanism? *Journal of Abnormal Psychology*, 111, 478-494.
- [28]. Braver, T. S. & Barch, D. M. (2002). A theory of cognitive control, aging cognition and neuromodulation. *Neuroscience and Biobehavioral Reviews*, 26, 809-817.
- [29]. *Burbridge, J. & Barch, D. M. (2002). Affective influences on reference production in schizophrenia. *Journal of Abnormal Psychology*, 111, 186-191.

2003

- [30]. Barch, D. M., Carter, C. S., MacDonald, A., Braver, T. S., & Cohen, J. D. (2003). Context processing deficits in schizophrenia: Diagnostic specificity, four-week course, and relationships to clinical symptoms. *Journal of Abnormal Psychology*, 112, 132-143.
- [31]. Barch, D. M., Sheline, Y. I., Csernansky, J. G., & Snyder, A. Z. (2003). Working memory and prefrontal cortex dysfunction: Specificity to schizophrenia as compared to major depression. *Biological Psychiatry*, 53, 376-384.
- [32]. #Bagner, D., *Melinder, M. R. D., & Barch, D. M. (2003). Working memory and language comprehension in schizophrenia. *Schizophrenia Research*, 60, 299-309.
- [33]. Barch, D. M., *Mathews, J. R., Buckner, R. L., Maccotta, L., Csernansky, J. G., Snyder, A. Z. (2003). Hemodynamic responses in visual, motor and somatosensory cortices in schizophrenia. *Neuroimage*, 20, 1884-1893.
- [34]. *Melinder, M. R. D. & Barch, D. M. (2003). Working memory manipulations of language production in schizophrenia. *Schizophrenia Bulletin*, 29, 473-484.

2004

- [35]. Barch, D. M., Carter, C. S., & Cohen, J. D. (2004). Factors influencing Stroop performance in schizophrenia. *Neuropsychology*, *18*, 477-484.
- [36]. Barch, D. M. (2004). Pharmacological manipulations of human working memory. *Psychopharmacology*, *174*, 126-135.
- [37]. Barch, D. M., Mitropoulou, V., Harvey, P., New, A. S., Silverman, J. M., and Siever, L. J. (2004). Context processing deficits in schizotypal personality disorder. *Journal of Abnormal Psychology*, *113*, 556-568.
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- [39]. Green, M. F., Nuechterlein, K. H., Gold, J. M., Barch, D. M., Cohen, J. D., Essock, S., Fenton, W. S., Frese, F., Goldberg, T. E., Heaton, R. K., Keefe, R. S. E., Kern, R. S., Kraemer, H., Stover, E., Weinberger, D. R., Zalcman, S., and Marder, S. R. (2004). Approaching a consensus cognitive battery for clinical trials in schizophrenia: The NIMH-MATRICES conference to select cognitive domains and test criteria. *Biological Psychiatry*, *56*, 301-307.
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- [43]. Nuechterlein, K. H., Barch, D. M., Gold, J. M., Goldberg, T. E., Green, M. F., & Heaton, R. K. (2004). Identification of separable cognitive factors in schizophrenia. *Schizophrenia Research*, *72*, 29-39.

2005

- [44]. Barch, D. M. (2005). The relationships between cognition, motivation and emotion in schizophrenia: How much and how little we know. *Schizophrenia Bulletin*, *31*, 875-881.
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- [54]. *Yarkoni, T., Gray, J. R., Chastil, E. R., Barch, D. M., Green, L., & Braver, T. S. (2005). Transient and sustained neural activity during temporally extended decision making. *Cognitive Brain Research*, 23, 71-84.

2006

- [55]. *Andrews, J., Wang, L., Csernansky, J. G., & Barch, D. M. (2006). The relationship between structure, function and cognition in the thalamus in schizophrenia. *American Journal of Psychiatry*, 163, 463-469.
- [56]. Barch, D. M. (2006). What can research on schizophrenia tell us about the cognitive neuroscience of working memory? *Neuroscience*, 139, 73-84.
- [57]. *Brahmbhatt, S., #Haut, K., Csernansky, J. G., & Barch, D. M. (2006). Neural correlates of verbal and nonverbal working memory deficits in individuals with schizophrenia and their high-risk siblings. *Schizophrenia Research*, 87, 191-204.
- [58]. *Delawalla, Z., Barch, D. M., Eastup, J., Thomason, E., Hanewinkle, M., Thompson, P. A., & Csernansky, J. G. (2006). Factors mediating deficits in cognitive function and clinical symptoms among siblings of individuals with schizophrenia. *Schizophrenia Bulletin*, 32, 525-537. PMID: PMC2632255
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- [62]. *Rush, B. K., Barch, D. M., & Braver, T. S. (2006). Accounting for cognitive aging: Context processing, inhibition or processing speed? *Aging, Neuropsychology and Cognition*. *13*, 588-610.
- [63]. *Racine, C., Barch, D. M., Noelle, D., & Braver, T. S. (2006). Changes in strategic processing with age as measured by a category learning paradigm. *Aging, Neuropsychology and Cognition*. *13*, 411-434.
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2007

- [65]. Barch, D. M., & Csernansky, J. G. (2007). Abnormal parietal cortex activation during working memory in schizophrenia: Verbal phonological coding disturbances versus domain general executive dysfunction. *American Journal of Psychiatry*, *164*, 1090-1098. PMID: 1760661 [PubMed - indexed for MEDLINE]
- [66]. Barch, D. M. & Smith, E. E. (2008). The cognitive neuroscience of working memory: Relevance to CNTRICS and schizophrenia. *Biological Psychiatry*, *64*, 11-17. PMID: PMC2483314
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CONSORTIUM RELATED PUBLICATIONS

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- [27]. Barch, D. M. & Carter, C. S. (2016). Introduction to the special issue on Structural and functional connectivity in psychopathology. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, *3*, 196-198.
- [28]. Krystal, J. H., et al. (2016). Constance E. Lieber, Theodore R. Stanley and the enduring impact of philanthropy on psychiatry research. *Biological Psychiatry*, *80*, 84-86.
- [29]. Barch, D. M. & Pagliaccio, D. (2017). Consistency, replication, and meta-analyses: Commentary on ALE meta-analyses on altered brain activity in unipolar depression revisited: A problem of replication. *Archives of General Psychiatry*, *74*, 56-57.
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- [34]. Whalen, D. Barch, D.M., & Luby, J. L. (2018). Highlighting risk for suicide from a developmental perspective. *Clinical Psychology: Science and Practice*, *25*, e12229.
- [35.] Barch, D. M. (2018). The power of collaboration and data aggregation: Commentary on Van Erp et al. *Biological Psychiatry*, *84*, 626-628.
- [36.] Barch, D. M. (2019). Commentary on Social and NonSocial Cognition in Schizophrenia: Where do we go from here? *World Psychiatry*, *18*, 117-118. PMID: PMC6502400
- [37]. Barch, D. M & Rogers, C. (2019). Maternal Depression and Child Development: Clues to causal mechanisms from potential confounds. *American Journal of Psychiatry*, *176*, 680-

682.

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MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

American Association for the Advancement of Sciences (AAAS)
American College of Neuropsychopharmacology (ACNP)
FLUX Society: International Congress for Integrative Developmental Cognitive Neuroscience
Organization for Human Brain Mapping
Schizophrenia Research Society
Society for Biological Psychiatry
Society for Research in Psychopathology

PROFESSIONAL SERVICE

Current:

Society for Biological Psychiatry Mentorship Program
NIMH Research Diagnostic Criteria Steering Committee
External Advisory Board, MGH Conte Center
External Advisory Board, University of Rochester Conte Center
External Advisory Board, NYU Center for Neural Science T90
Chair, Association for Psychological Science Publication Committee
Brain Behavior Research Foundation Scientific Council
Stanley Foundation External Advisory Board
Wellcome Trust Foundation External Review Committee
ACNP, Women's Task Force
ACNP Mentorship Program
ACNP Nominating Committee Member
One Mind, Scientific Advisory Board
Co-Chair, Schizophrenia International Research Society 2020 Program Committee
Co-Chair, Neuroscience in the Cloud: Opportunities and Challenges, National Academy of Science Workshop
SIRS Nominating Committee Member
Search Committee, Psychological Review Editor Search
FLUX Executive Board, 2020-2022
Chair-Elect, Psychology Section, AAAS
Biological Psychiatry Executive Board, 2021-2024

Past:

Program Committee Chair, FLUX Conference 2019
Association for Psychological Science Executive Board
Chair, Executive Board, Council of Graduate Departments of Psychology
Chair, R61 Study Section, October 2019
All About Us Precision Medicine Initiative – Child Cohort Advisory Committee
National Institute of Mental Health Scientific Advisory Council
Mental Health Research Panel Co-Chair (Common Data Elements for NIMH research)

Program Committee, International Congress on Schizophrenia Research (2015)
Program Committee, Reinforcement Learning and Decision Making Conference (2015)
Institute of Medicine – Cognitive Dysfunction in Depression Workshop Committee
National Institute of Mental Health – Standing APDA Committee Member (2006-2010)
Society for Research in Psychopathology – Secretary (2004-2011)
Society for Research in Psychopathology – Program Committee (2000, 2010)
Society for Research in Psychopathology – Local Host for Conference (2004)
Society for Research in Psychopathology – Executive Board (2003-2005)
Biomarkers Consortium MATRICS-CT Working Group
Measurement and Treatment Research to Improve Cognition in Schizophrenia (MATRICS) Program – Neurocognition Committee Member
Measurement and Treatment Research to Improve Cognition in Schizophrenia (MATRICS) Program – Conference Organizer
Wellcome Trust – Ad Hoc Reviewer
Canadian Research Council – Ad Hoc Reviewer
Mental Health Research Institute of Victoria – Ad Hoc Reviewer
Medical Research Council of the United Kingdom – Adhoc Review
Scottish Medical Council – Adhoc Reviewer
Israeli Research Council – Adhoc Reviewer
Course Director, Summer Institute for Cognitive Neuroscience (2011)
Psychological Clinical Science Accreditation Review Committee Member
American Psychiatric Association - DSM-V Psychosis Workgroup
Society for Research in Psychopathology – President (2012-2013)
External Advisory Board, University of Colorado at Boulder Basic Science Center
External Advisory Board, University of Pittsburgh Conte Center
American Psychiatric Association DSM-5 Revision Committee
External Review Committee, Beckman Institute, University of Illinois at Champaign-Urbana
External Review Committee, Emory University Psychology Department
Chair, RDoC Common Data Elements Workgroup, National Institute of Mental Health

JOURNAL SERVICE

Editor

Cognitive, Affective and Behavioral Neuroscience (2007-2014)

Associate/Deputy Editor

Biological Psychiatry (2015-present)

Biological Psychiatry: Cognitive Neuroscience and Neuroimaging (2015-present)

Journal of Abnormal Psychology (2000-2007)

Editorial Board/Consulting Editor

Clinical Psychological Science

Clinical Psychology: Science and Practice

Computational Psychiatry

Journal of Abnormal Psychology

Psychological Review

Schizophrenia Bulletin

Adversity and Resilience Science

Current Directions in Psychological Science (Past)

Special Guest Editor (2012)

Neurobiology of Disease: Special Issue on the Neurobiology of Depression.
*Journal of the International Neuropsychological Society: Human Brain Connectivity in the
Modern Era: Relevance to understanding Health and Disease*
Proceedings of the National Academy of Sciences

Chair, Search Committee for Editor of Clinical Psychological Science (2019/2020)

**Chair, Search Committee for Editor of Current Directions in Psychological Science
(2018/2019)**

Chair, Search Committee for Editor of Psychological Science (2018/2019)

Chair, Search Committee for Editor of Psychological Science in the Public Interest (2018)

Chair, Search Committee for Editor of Perspectives on Psychological Science (2018)

Chair, Search Committee for Editor of Clinical Psychological Science (2015)

Member, Search Committee for Editor of Clinical Psychological Science (2010)

Reviewer

American Journal of Psychiatry
JAMA Psychiatry
Biological Psychiatry
Cerebral Cortex
Clinical Psychological Science
Cognitive, Behavioral and Affective Neuroscience
Cognition and Emotion
Cognitive Neuropsychology
Developmental Cognitive Neuroscience
JAMA Psychiatry
Journal of Abnormal Psychology
Journal of the Academy of Child and Adolescent Psychiatry
Journal of Neuroscience
History of Neuroscience
Emotion
Journal of Cognitive, Affective, and Behavioral Neurosciences
Lancet
Molecular Psychiatry
Nature
Neuron
Neuropsychopharmacology
Neuroimage
Neuroimage: Clinical
Neuropsychology
Proceedings of the National Academy of Sciences
Psychiatry Research
Psychological Bulletin
Psychological Medicine
Psychological Review
Psychophysiology
Schizophrenia Bulletin
Schizophrenia Research
Translational Psychiatry

EXTERNAL REVIEW COMMITTEE

Chair, University of Pittsburgh Psychology Department
 Chair, Emory Psychology Department
 Chair, Beckman Institute, University of Illinois at Champaign-Urbana

UNIVERSITY SERVICE

Neuroimaging Laboratory Protocol Review Committee, Department of Radiology, Washington University	1998-2001
Olin Fellowship Committee, Washington University	2001-2003
Reviewer, Biology Department Spector Prize Committee, Washington University	2000-2004
African American Studies Director Search Committee	2003-2004
Faculty Associate	2003-2004
Task Force on Graduate Education	2004-2006
Graduate Council Executive Committee	2004-2005, 2006-2012
Chair, Graduate Council Policies and Procedures Committee	2004-2005
Undergraduate Life Committee of the Board of Trustees	2004-2005, 2006-2007
Faculty Council (Chair in 2008)	2006-2008
Philosophy Search Committee	2007-2008
Dean of Arts and Sciences Search Committee	2008-2009
Chair, Graduate Council Teaching and Professional Development Committee	2006-2012
Chair, Graduate Council Executive Committee	2007-2008, 2009-2012
Undergraduate Life Sciences Committee	2008-2010
Human Subjects Quality Assurance Committee	2009-2012
Chair, Vice Chancellor for Research Search Committee	2009-2010
Freshman Reading Program	2008, 2009, 2011, 2012 2013, 2014, 2015, 2016, 2017, 2018

Promotion and Tenure Committee	2011-2014
Faculty Leadership Committee	2012-2014
Chair, Dean of the Graduate School Search Committee	2013
Search Committee, Vice Chancellor for Student Affairs	2014-2015
Vice Chancellor for Research Review Committee	2019
Steering Committee, Cognitive, Computational and Systems Neuroscience Pathway	2001-present
McDonnell Center for Systems Neuroscience Operations Committee	2007-present
University Academic Planning Committee	2008-present
University Sexual Assault Investigative Board (USAIB)	2013-2019
Associate Director Board of the WU-IDDRC	2014-present
Center For High Performance Computing Steering Committee	2014-present
Security and Privacy Governance Committee	2014-present
Faculty Fellow	2015-present
Danforth Scholars Interview Committee	2017-present
HRPO Director Search Committee	2019
University Harassment and Discrimination Board	2019-present
DEPARTMENTAL SERVICE	
Graduate Student Admissions Committee, Department of Psychology, University of Illinois at Urbana-Champaign.	1989-1991
Psychology Intern Admissions Committee, Western Psychiatric Institute and Clinic, University of Pittsburgh Medical School.	1994-1998
Image Analysis Center Committee, Department of Psychology, Washington University	1998-2012
Clinical Search Committee, Department of Psychology, Washington University	1998
Clinical Neuropsychology Brown Bag Organizer, Department of Psychology, Washington University	1999-2001

Functional Neuroimaging Brown Bag Co-organizer, Department of, Psychology, Washington University	1999-2000
Baker Chair Search Committee, Department of Psychology, Washington University	2001-2002
Senior Chair Clinical Search Committee, Department of Psychology, Washington University	2002-2003
Clinical Psychology Colloquium Series Organizer, Department of Psychology, Washington University	2001-2006
Clinical Search Committee, Department of Psychology, Washington University	2003-2004 2004-2005 2010-2011 2011-2012
Cognitive Neuroscience Search Committee, Department of Psychology, Washington University	2006-2007
Behavioral Genetics Search Committee, Department of Psychology, Washington University	2007-2008
Women Studies Search Committee, Department of Psychology, Washington University	2007-2008
Director of Graduate Studies, Department of Psychology Washington University	2004-2014
Rosensweig Chair Search Committee, Department of Psychology, Washington University	2014-2015
Diversity Science Search Committee, Department of Psychology, Washington University	2016-2017
Brain Behavior and Cognition Search Committee, Department of Psychology, Washington University	2018-2019
Chair, Department of Psychological & Brain Sciences Washington University, St. Louis, Missouri	2014-present

INVITED PRESENTATIONS

May 1992 — The relationship between information processing and language production. Ed Scheiderer Memorial Research Award Address, Department of Psychology, University of Illinois at Urbana-Champaign.

December 1996 — Thought and Language Disturbances in Schizophrenia: Cognitive and Neural Mechanisms. Invited Talk, State University of New York, Stonybrook, Stonybrook, New York.

- January 1997 — Thought and Language Disturbances in Schizophrenia: Cognitive and Neural Mechanisms. Invited Talk, Washington University, St. Louis, Missouri.
- January 1997 — Thought and Language Disturbances in Schizophrenia: Cognitive and Neural Mechanisms. Invited Talk, Tufts University, Boston.
- January 1997 — Thought and Language Disturbances in Schizophrenia: Cognitive and Neural Mechanisms. Invited Talk, University of Southern California.
- February 1997 — Thought and Language Disturbances in Schizophrenia: Cognitive and Neural Mechanisms. Invited Talk, University of Texas at Austin.
- February 1997 — Thought and Language Disturbances in Schizophrenia: Cognitive and Neural Mechanisms. Invited Talk, University of Colorado at Boulder.
- February 1997 — Thought and Language Disturbances in Schizophrenia: Cognitive and Neural Mechanisms. Invited Talk, University of Missouri at Columbia.
- May 1997 — Thought and Language Disturbances in Schizophrenia: Cognitive and Neural Mechanisms. Invited Talk, University of Minnesota, Minneapolis.
- May 1999 — The Cognitive and Neural Mechanisms Underlying Thought and Language Disturbances in Schizophrenia. Invited Address, Midwestern Psychological Association, Chicago, Illinois.
- November 1999 — Mechanisms of Cognitive Control: Clinical and Neuroimaging Investigations. Invited Address, University of Missouri, Columbia, Missouri.
- September 2000 — The Anterior Cingulate, Prefrontal Cortex, and Executive Control in Schizophrenia: fMRI and Behavioral studies, Invited Address, Executive Control, Errors, and the Brain Conference, Jena Germany
- January 2001 – Prefrontal Cortex, Cognitive Control and Schizophrenia. Invited Address, Society for Women Engineers, St. Louis, Missouri.
- November 2001 – Mechanisms of Cognitive Control. Invited Address, University of Illinois at Urbana-Champaign Neuroscience Colloquium Series, Champaign-Urbana, Illinois
- January 2002 – Cognitive Control Deficits in Schizophrenia. Invited Address, University of Michigan fMRI Colloquium Series, Ann Arbor Michigan
- January 2002 – Cognitive Control Deficits in Schizophrenia. Psychiatry Grand Rounds, Washington University, St. Louis Missouri
- January, 2002 – Cognitive Control Deficits in Schizophrenia. Clinical Psychology Research Colloquium, Washington University, St. Louis Missouri
- January 2002 – Cognitive Control Deficits in Schizophrenia. Behavior, Brain and Cognitive Seminar Series, Washington University, St. Louis Missouri

- April 2002 – Cognitive Control Deficits in Schizophrenia: Behavioral and Neuroimaging Investigations. Conference on Integrative Psychological Science, Indiana University, Bloomington, Indiana.
- May 2002 – Working memory and prefrontal cortex function in schizophrenia: Regional and memory domain specificity and non-specificity. Biological Psychiatry Conference, Philadelphia, Pennsylvania.
- November 2002 – Cognitive Control Deficits in Schizophrenia: Behavioral and Neuroimaging Investigations. Invited Colloquium, Behavioral Neuroscience Department, Oregon Health Sciences University
- May 2003 – Cognitive and Neural Mechanisms of Control Deficits in Schizophrenia. Invited Address, American Psychological Society Conference, Atlanta, GA.
- May 2003 – The Nature and Causes of Language Dysfunction in Schizophrenia. Invited Lecture, St. Louis Psychology Internship Consortium, St. Louis, MO.
- May 2003 – Functional Imaging in Neuropsychiatric Disorders. Invited Lecture, Washington University Residents Lecture Series, St. Louis, MO.
- June 2003 – Pharmacological Manipulation of Human Working Memory. Invited Talk, MATRICS Neuropharmacology Meeting, Bethesda, MD.
- October 2003 – Cognitive and Neural Mechanisms of Control Deficits in Schizophrenia. Invited Talk, Harvard/MGH Brain Mapping Colloquium, Boston, MA.
- November 2003 – Cognitive and Neural Mechanisms of Control Deficits in Schizophrenia. Invited Talk, Saint Louis University, St. Louis, MO.
- December 2003 – Functional Brain Imaging of Human Cognition. Teaching Day Presentation, American College of Neuropsychopharmacology, San Juan, Puerto Rico.
- February 2004 – Episodic Memory Deficits in Schizophrenia: What Parts and Why?. Behavior, Brain and Cognitive Seminar Series, Washington University, St. Louis Missouri
- February 2004 – Cognitive Control Deficits in Schizophrenia. University Management Team, Washington University, St. Louis Missouri
- May 2004 – Cognitive Control Deficits in Schizophrenia. Behavioral and Neuroimaging Investigations. Research Day Presentation, University of Minnesota Psychology Department, Minneapolis, Minnesota.
- June 2004 – Language Dysfunction in Schizophrenia. Invited Lecture, St. Louis Psychology Internship Consortium, St. Louis, MO.
- July 2004 – What can research on schizophrenia and other neurological disorders tell us about the cognitive neuroscience of working memory. Invited Workshop, Cognitive Neuroscience Summer School on Working Memory, Bled, Slovenia.
- July 2004 – What can research on schizophrenia tell us about the cognitive neuroscience of

- working memory. Invited Talk, Symposium on Working Memory, Ljubljana, Slovenia.
- October 2004 – fMRI of cognitive and emotional processing: Is there we are headed?. Invited Talk, 3rd Annual Global Symposium on High Field Imaging: Stanford Radiology Continuing Education, Los Vegas, NE.
- December 2004 – Memory processing in schizophrenia. Invited Talk, Philosophy, Neuroscience and Psychological Luncheon Series, St. Louis, MO.
- February 2005 – Cognitive Control Deficits in Schizophrenia: Neurobiological and Psychological Mechanisms. International Neuropsychological Society Continuing Education, St. Louis, MO.
- February 2005 – Cognitive Control Deficits in Schizophrenia: Neurobiological and Psychological Mechanisms. Colloquium, University of Maryland Schizophrenia Research Day, Baltimore Maryland.
- February 2005 – Cognitive and Emotional Control Deficits in Schizophrenia: Neurobiological and Psychological Mechanisms. Departmental Colloquium, Vanderbilt University, Nashville, TN.
- February 2005 – Cognitive Control Deficits in Schizophrenia: Relationships to Emotional Processing. Conte Center Research Seminar, Washington University, St. Louis, MO.
- February 2005 – Cognitive and Emotional Control in Schizophrenia. Invited Talk, Philosophy, Neuroscience and Psychological Works in Progress Series, St. Louis, MO.
- March 2005 – Cognitive and Emotional Control Deficits in Schizophrenia: Neurobiological and Psychological Mechanisms. Departmental Colloquium, University of Michigan, Ann Arbor, MI.
- May 2005 – How Can Cognitive Neuroscience Measures Be Best Used in Clinical Trials. Society for Biological Psychiatry Workshop, Atlanta, Georgia.
- May 2005 – Emotional Regulation in Schizophrenia. Neuroimaging Laboratory Lecture Series, Washington University, St. Louis, MO.
- June 2005 – The Causes and Risks of Developing Schizophrenia. NARSAD Research Symposium, St. Louis, MO.
- November, 2005 – Cognitive and Emotional Control in Schizophrenia: Slovenia Neuroscience Symposium, Ljubljana, Slovenia.
- December, 2005 – Cognitive and Emotional Control in Schizophrenia: Chaucer Club Lecture Series, Cognitive and Brain Unit, Cambridge, England.
- December 2005 – Episodic Memory in Schizophrenia: University College London Memory Club, London, England.
- January 2006 – Episodic Memory in Schizophrenia: Institute of Psychiatry Schizophrenia Research Group, London England.

- February 2006 – Proactive and Reactive Cognitive Control in Schizophrenia: Department of Psychology, Cardiff University, Cardiff, Wales.
- March 2006 – Wanting and Liking in Schizophrenia: Learning Processes in Schizophrenia: Prediction Error and Connectivity Conference. Functional Imaging Laboratory, London, England.
- March 2006 – Cognitive Control in Schizophrenia: Department of Psychiatry, University of Edinburgh, Edinburgh, Scotland.
- May 2006 – Cognitive Control in Schizophrenia: Institute of Psychiatry, Psychosis Interest Group, London, England.
- May 2006 – Cognitive Control in Schizophrenia: Zangwill Club Lecture Series, University of Cambridge, Cambridge, England.
- June 2006 – Cognition, Motivation and Learning in Schizophrenia, Cognitive Remediation in Psychiatry Conference, New York, New York.
- January 2007 – Cognitive Control in Schizophrenia. Translational Neuroscience Research Seminar Series, University of Pittsburgh, Pittsburgh, PA.
- March 2007 – Cognitive and Emotional Control in Schizophrenia. Department of Psychology Colloquium Series, University of Iowa, Iowa City, Iowa.
- May 2007 – Schizophrenia: Losing Control over Thoughts, Memories and Emotions. Distinguished Lectures on Brain, Learning and Memory. UC Irvine, Irvine, California.
- November 2007 – Schizophrenia and Cognitive Control. Tubin Visiting Professor Lecture Series, UC Davis, Davis California.
- April 2008 – Schizophrenia: Losing Control over Thoughts, Memories and Emotions. McMaster University Research Day Keynote Speaker, McMaster University, Toronto Canada
- May 2008 – Schizophrenia: Emotion and Motivation. NARSAD Research Symposium, St. Louis, Missouri.
- June 2008– The Cognitive Neuroscience of Schizophrenia. Cold Spring Harbor Schizophrenia Course, Cold Spring Harbor, Long Island, New York.
- Oct 2008– Cognitive and Affective Control in Schizophrenia. Keynote Speaker, Society for Psychophysiological Research, Austin Texas.
- Jan 2009– Cognitive and Neural Mechanisms of Disrupted Control in Schizophrenia. Grand Rounds, Northwestern School of Medicine, Chicago, Illinois.
- Feb 2009– Cognitive and Affective Control in Schizophrenia. Grand Rounds, University of Michigan, School of Medicine, Ann Arbor, Michigan.
- Feb 2009– Cognitive Neuroscience in the Era of Translation. Invited Seminar, Translational

Cognitive Neuroscience Seminar, Psychology Department, University of Michigan, Ann Arbor, Michigan.

Mar 2009– Prefrontal/Hippocampal Interactions in the Control of Episodic Memory in Schizophrenia. Invited Talk, Cognition Satellite Symposium, International Congress on Schizophrenia Research, San Diego, CA.

Mar 2009– Cognitive and Affective Control in Schizophrenia. University of British Columbia Psychology Department Colloquium, Vancouver, British Columbia.

May 2009 – Emotion, Motivation and Reward in Psychiatric Disorders. 1st NIMH Brain Camp. Cold Spring Harbor, New York.

Jun 2009 – Cognition in Psychosis: Similarities and Differences Across the Mood and Psychotic Disorders Spectrum. 8th International Conference on Bipolar Disorder, Invited Talk, Pittsburgh, Pennsylvania.

Sept 2009 – Emotion and Motivation in Psychosis. New York State Psychiatric Institute Colloquium, New York, New York.

Oct 2009 – Emotion and Motivation in Psychosis. Washington University Neuroscience Seminar Series, St. Louis, MO.

Nov 2009 – COMT, Prefrontal Cortex, and Psychosis. PNP Works in Progress Series. Washington University Neuroscience Seminar Series, St. Louis, MO.

Jan 2010 – Emotion and Motivation in Psychosis. Semel Institute for Neuroscience, University of California at Los Angeles, Los Angeles, CA.

Jan 2010 – Cognitive and Affective Control in Schizophrenia. NINDS Lecture Series. Washington University in St. Louis, St. Louis, MO.

May 2010 – Cognitive and Affective Control in Schizophrenia. Nordic Center for Excellence in Cognitive Control. St. Petersburg, Russia

November 2010 – Crossing the Basic to Clinical Divide: Results from the *Cognitive Neuroscience Task Reliability & Clinical Applications (CNTRACs) Consortium Study*. Vanderbilt Psychiatry Grand Rounds, Vanderbilt University, Nashville TN.

December 2010 – Altered Functional Brain Responses and Connectivity in Preschool Onset Depression. University of Waterloo Departmental Colloquium, Waterloo, CA.

January 2011 – Motivation, Reward and Cognitive Control. 3rd Annual IBSC Conference, University of Colorado, Boulder, CO.

January 2011 – Crossing the Basic to Clinical Divide: Results from the *Cognitive Neuroscience Task Reliability & Clinical Applications (CNTRACs) Consortium Study*. Psychiatry Grand Rounds, Washington University, St. Louis, MO.

March 2011 – Cognitive and Affective Control in Schizophrenia. Harvard Psychology Department Colloquium, Harvard, Boston, MA.

March 2011 – Cognitive and Affective Control in Schizophrenia. Duke Psychology Department Colloquium, Durham, NC.

May 2011 – Altered Functional Brain Responses and Connectivity in Preschool Onset Depression. Translational Neuroscience Program Talk Series, University of Pittsburgh Medical School, Pittsburgh, PA.

May 2011 – Crossing the Basic to Clinical Divide: Results from the *Cognitive Neuroscience Task Reliability & Clinical Applications (CNTRACs) Consortium* Study. University of Pittsburgh Conte Center, Pittsburgh, PA.

June 2011 – Variety is the Spice of Life: Variability in Cognitive Control Functions. Summer Institute for Cognitive Neuroscience, Santa Barbara, CA.

June 2011 – Cognitive and Affective Control in Mood Disorders. Summer Institute for Cognitive Neuroscience, Santa Barbara, CA.

Nov 2011 – Motivation in Schizophrenia. Philosophy, Neuroscience and Psychology Works in Progress Seminar. Washington University in St. Louis. St. Louis, MO.

Nov 2011 – Crossing the Basic to Clinical Divide: Results from the *Cognitive Neuroscience Task Reliability & Clinical Applications (CNTRACs) Consortium* Study. Pfizer Pharmaceuticals

Dec 2011 – Altered Functional Brain Responses and Connectivity in Preschool Onset Depression. University Management Team Meeting, Washington University, St. Louis, MO.

Jan 2012 – Altered Functional Brain Responses and Connectivity in Preschool Onset Depression. Psychiatry Grand Rounds, Washington University in St. Louis. St. Louis, MO.

Feb 2012 – Motivation, Reward and Brain Function in Schizophrenia. Brain, Behavior and Cognitive Seminar, University of Illinois at Urbana-Champaign, Champaign, IL.

April 2012 – Motivation, Reward and Brain Function in Schizophrenia. Rushton Symposium, University of Florida at Tallahassee, Tallahassee, FL.

July 2012 – Episodic Memory in Psychopathology. Summer Institute in Cognitive Neuroscience, Santa Barbara, CA.

September 2012 – Neural and Psychological Mechanisms of Motivational Impairments in Schizophrenia. Grand Rounds, Yale University School of Medicine, New Haven, CT.

October 2012 – Motivation, Reward and Brain Function in Schizophrenia. Taylor Lecture, University of Maryland, Maryland Psychiatric Research Center, Baltimore, MD.

May 2013 – Motivation and Reward Processing in Psychopathology. Mechanisms of Motivation, Cognition, and Aging Interactions Conference (MOMCAI), Washington DC.

May 2013 – Replicability in Neuroimaging. Association for Psychological Science Conference,

Washington DC.

September 2013 – Motivation, Reward and Brain Function in Schizophrenia. Presidential Address, Society for Research in Psychopathology, Oakland CA.

September 2013 – Cognitive Control in Schizophrenia. Slovenia Neuroscience Symposium, Ljubljana, Slovenia.

October 2013 – Cognitive and Affective Control in Schizophrenia. Columbia University Psychology Department Colloquium, New York, NY.

October 2013 – Reinforcement Learning in Schizophrenia. Reinforcement Learning and Decision Making Conference, Princeton, NJ.

January 2014 – Neural and Psychological Mechanisms of Motivational Impairments in Schizophrenia. Grand Rounds, Mount Sinai School of Medicine, New York, NY.

January 2014 – Neural and Psychological Mechanisms of Motivational Impairments in Schizophrenia. Grand Rounds, St. Luke's Roosevelt Hospital, New York, NY.

January 2014 – The Human Connectome Project. Grand Rounds, Psychiatry Department, Washington University School of Medicine, St. Louis, MO.

March 2014 – Schizophrenia: Facts and Fiction. Mini Medical School. Washington University School of Medicine, St. Louis, MO.

April 2014 – Connectivity and Psychopathology. Keynote Symposium. Schizophrenia International Research Society. Florence, Italy.

April 2014 – Motivation and Cognitive Control in Schizophrenia. Berkeley University Clinical Psychology Colloquium, Berkeley, California.

May 2014 – Connectivity, RDoC, and Psychopathology. APA/NIMH Symposium. American Psychiatric Association Conference. New York, New York.

May 2014 – The Future of Psychopathology Research. University of California at San Francisco Research Retreat, San Francisco, California.

Oct 2014 – Connectomics and Psychopathology, Yale Institute of Living Grand Rounds, Hartford Connecticut.

Oct 2014 – Neural and Psychological Mechanisms of Motivational Impairments in Psychopathology, Grand Rounds, Long Island Jewish Hospital

February 2015 – Connectomics and Psychopathology, Keynote Speaker, International Neuropsychological Society Conference, Denver, Colorado

February 2015 – Connectomics and Psychopathology, Neurology Grant Rounds, St. John's Hospital, Saint Louis, Missouri.

- April 2015 – Connectomics and Psychopathology, Colloquium Speaker, National Institutes of Health Neuroscience Colloquium, Washington DC
- May 2015 – Connectomics and Psychopathology, Colloquium Speaker, McLean Hospital, Boston, MA.
- June 2015 – Connectomics and Behavior, Colloquium Speaker, Center for Mind and Brain, University of California at Davis, Davis, CA.
- November 2015 – Connectomics and Psychopathology, Colloquium Speaker, Yale MR Center, New Haven, CT.
- January 2016 – Connectomics and Psychopathology, Translational Neuroscience Colloquium Speaker, Broad Institution of Harvard and MIT, Boston, MA.
- April 2016 – Connectomics and Psychopathology, Translational Neuroscience. Grand Rounds, Columbia University.
- May 2016 – Motivation Schizophrenia and Depression. Purdue Psychological Sciences Symposium. Purdue, Indiana.
- May 2016 – Motivation and Psychopathology. Invited address, Association for Psychological Science Conference, Chicago, Illinois
- May 2016 – The structure of psychosis. Invited address, Association for Psychological Science Conference, Chicago, Illinois
- November 2016 – Neural and Psychological Mechanisms of Motivational Impairments in Psychopathology, Colloquium, Yale University, New Haven, Connecticut
- Feb 2017 – Connectomics and the Brain: Present and Future, Plenary Address, International Neuropsychological Society Conference, New Orleans, Louisiana
- March 2017 – The Neural Mechanisms of Cognitive Control in Psychosis, Plenary Address, International Congress on Schizophrenia Research, San Diego California
- March 2017 – Mechanisms of Motivational Impairment in Psychosis, Colloquium, Princeton University, Princeton, New Jersey
- April 2017 – The Enduring Impact of Poverty on Children: Development of Brain Structure and Function, Grand Rounds, University of Chicago Medical School, Chicago, Illinois
- April 2017 – Neural and Psychological Mechanisms of Motivational Impairments in Psychopathology, Colloquium, Northwestern University, Evanston, Illinois.
- June 2017 – Cartographers of the Brain. World Science Festival, New York City, NY.
- September 2017 – Mechanisms of Motivational Impairment in Psychosis, Invited Address, European College of Neuropsychopharmacology, Paris, France
- September 2017 – Connectomics and Psychopathology, Cambridge Neuroscience. Invited

Address, Cambridge, England.

October 2017 – Neural, motor and cognitive risk factors for psychosis. Annual meeting of the National Academy of Medicine, Washington DC.

January 2018 – Hypotheses driving research using big data: Examples from the ABCD study, Sackler Winter Conference on Psychobiology. Kona, Hawaii

January 2018 – The Enduring Impact of Poverty on Children: Development of Brain Structure and Function, Integrated Brain and Behavior Conference, Haifa, Israel.

February 2018 – Connectomics and Psychopathology, Psychology Department Colloquium, University of Texas at Austin, Austin Texas.

February 2018 – Human Connectome Project: Past, present and future: Philosophy, Psychology and Neuroscience Colloquium, Washington University, St. Louis, Missouri.

April 2018 – Understanding risk for mood pathology from an RDoC Perspective: ADAA Scientific Symposium, Washington DC

April 2018 – Mechanisms of Motivational Impairment in Psychosis, Invited Address, Nebraska Symposium on Motivation, Lincoln NE

April 2018 – Mechanisms of Motivational Impairment in Psychosis, Grand Rounds, Zucker Hillside Hospital, Long Island, NY

April 2018 – Understanding risk for mood pathology from an RDoC Perspective: Departmental Colloquium, Stony Brook University, Long Island, NY

May 2018 – Mechanisms of Motivational Impairment in Psychopathology, Presidential Symposium, Society for Social and Affective Neuroscience, Brooklyn, NY

May 2018 – Psychotic Like Experiences in Young Children: Clinical Validity, Behavioral Correlates, and Neural Markers in the ABCD Study, American Psychiatric Association Annual Meeting, New York, NY.

June 2018 – Computational Contributions to Understanding Motivational Impairments in Psychosis, Center for Neural Science Computational Symposium, New York University, New York, NY.

June 2018 – Cognitive Function in Psychosis, Schizophrenia Course, Cold Spring Harbor Laboratory, Banbury, NY.

June 2018 – Understanding risk for mood pathology from an RDoC Perspective: Trevor Young Lecture in Psychiatry, University of Toronto, Toronto, Canada.

October 2018 – Connectomics and Psychopathology, Grand Rounds, University of Minnesota Medical School, Minneapolis, Minnesota.

Feb 2019 – The Evolution of Risk for Psychosis, UC Davis Distinguish Lecturer Series, University of California Davis, Sacramento, California

- March 2019 – Mechanisms of Motivational Impairment in Psychopathology, Southwest University, Chongqing, China
- April 2019 – Connectomics and Psychosis, Grand Rounds, Cornell Medical School, New York, New York.
- May 2019 – Adolescent Brain and Cognitive Development Study: Understanding the Development of Psychopathology, 31st Association of Psychological Science Convention, Washington DC
- May 2019 – Developmental Trajectories in the Relationship of Depression to the Neural Substrates of Reward Processing, 31st Association of Psychological Science Convention, Washington DC
- Sept 2019 – Are There Sensitive Periods for Relationships to Brain Health?, Brain Health Across the Life Span, National Academies, Washington DC
- Nov 2019 – Early Emergence of Depression: Understanding Risk Factors and Treatment, Developmental Affective Neuroscience Symposium, University of Pittsburgh Medical School, Pittsburgh, PA
- Nov 2019 – Understanding Risk Factors for the Development of Psychosis: Early Findings from the Adolescent and Brain Cognitive Development (ABCD) Study, Psychiatric Grand Rounds, University of Pittsburgh Medical School, Pittsburgh, PA
- Nov 2019 – Connectomics and Psychopathology, 4th Annual UMSL Neuroscience Research Showcase, University of Missouri St. Louis, St. Louis, MO.
- Jan 2020 – Early Emergence of Depression: Understanding Risk Factors and Treatment, Hebb Lecture, McGill University, Montreal, CA.
- Feb 2020 – Mechanisms of Motivational Impairment in Schizophrenia, MINDCore Lecture Series, University of Pennsylvania, Philadelphia, PA.
- Feb 2020 – Computational Contributions to Understanding Psychosis. IPAM Computational Psychiatry Workshop, UCLA, Los Angeles, CA.
- March 2020 – Understanding Risk Factors for the Development of Psychosis: Early Findings from the Adolescent and Brain Cognitive Development (ABCD) Study, Hans Lowenbach Memorial Lecture, Duke University Department of Psychiatry, Duke University, Durham, NC
- March 2020 – Mechanisms of Motivational Impairment in Schizophrenia, MIREC Retreat, Los Angeles VA Series, Los Angeles, CA.

TEACHING

Abnormal Psychology (354)
Neuropsychological Syndromes (5523)

Personality Assessment (5111)
Biological Bases of the Major Mental Disorders (4765)
fMRI Methods (4450)
Project Building Cognitive Computational and Systems Neuroscience
Biological Foundations of Behavior (5581)
Identity Literacy

K-AWARD PRIMARY MENTOR OR CO-MENTOR

Past

Brenda, Kirchoff	Currently Associate Professor at St. Louis University
Daniel Mamah	Currently Associate Professor at Washington University
Andrew Belden	No longer in the field
Michael Gaffery	Currently Assistant Professor at Duke University
Christina Lessov-Schlaggar	Currently Adjunct Assistant Professor at Washington University
Deanna Green	Assistant Professor at Washington University

Current

Nico Dosenbach	Assistant Professor at Washington University
Jared Van Snellenberg	Assistant Professor at State University of New York at Stony Brook
Brian Keane	Assistant Professor at Rutgers University

POSTDOCTORAL FELLOWS:

Past

Christina Fales	Research Scientist at Hillside Long Island Jewish
Hideo Suzuki	Assistant Professor at University of Nebraska-Lincoln
Akinkunl Owoso	Assistant Professor at Washington University
Eric Murphy	Program Officer, National Institute of Mental Health
Chad Sylvester	Assistant Professor at Washington University
Mike Gaffrey	Assistant Professor at Duke University
Kirsten Gilbert	Assistant Professor at Washington University
Diana Whalen	Instructor at Washington University

Current

Erin Moran
Nicole Karcher
Alecia Vogel-Hammen

DISSERTATION AND HONORS THESIS COMMITTEES

Doctoral Committee Chair and Thesis Advisor

Beth Keys (2001; Co-Chaired with Todd Braver). *Age-related deficits in inhibition: Exploring the role of endogenous control.*

Jennifer Burbridge (2004). *Subjective experience of emotion in schizophrenia. (Chair and thesis advisor)*

Meredith Dodge Melinder (2004). *Automatic versus controlled priming in individuals with schizophrenia. (Chair and thesis advisor)*

Carrie Racine (2005). *Learning during older adulthood: The relation to age-related changes in prefrontal cortex function. (Chair and thesis advisor)*

Jennifer Mathews (2007). *Emotional processing, social cognition, and social functioning deficits in schizophrenia. (Chair and thesis advisor)*

Shefali Brahmhatt (2008). *Functional neuroanatomy of working memory as a risk factor for schizophrenia. (Chair and thesis advisor)*

Aaron Bonner-Jackson (2009). *Associative memory processing in schizophrenia. (Chair and thesis advisor)*

Zainab Delawalla (2009). *Stress reactivity, stress appraisal and coping responses in schizophrenia (Chair and thesis advisor)*

Jessica Paxton (2009). *Cognitive training for transfer in healthy aging. (Chair and thesis advisor)*

Alan Anticevic (2010). *Cognitive and Emotion Interactions in Working Memory in Schizophrenia. (Chair and thesis advisor)*

Erin Dowd (2012). *Reinforcement learning in schizophrenia (thesis advisor)*

Karla Becceril (2013). *Error processing networks in schizophrenia (thesis advisor)*

Kevin Packerham (2014). *The effect of cigarette smoking during acute alcohol intoxication (co-thesis advisor)*

Yu Sun Chung (2014). *Psychological and Neural Mechanisms Integrating Reward and Cognitive Control: Application to Schizophrenia. (thesis advisor)*

Alan Ceasar (2015). *Basal Ganglia and Updating in Schizophrenia (thesis advisor)*

Katherine Luking (2015). *Reward processing in children at risk for depression (thesis advisor)*

David Pagliaccio (2015). *HPA Axis risk genes, stress and psychopathology (thesis advisor)*

Julia Sheffield (2017). *Transdiagnostic relationship between functional networks and cognition in psychosis (thesis advisor)*

Dov Lerman-Sinkoff (2018). *Multi-modal assessment of the neural mechanisms of cognitive impairment in psychosis (thesis advisor)*

Adam Culbreth (2019). *Effort based decision making in psychosis* (thesis advisor)

Kat Lopez (present). *Executive function and suicidal ideation versus attempts: Cognitive and neural correlates* (thesis advisor)

Elizabeth Hawkey (present). *Functional connectivity topography and ADHD* (thesis advisor)

Doctoral Committee Chair but not Thesis Advisor

Meghana Karnik (2009). *Genetic effects on structure-function correlations* (Chair, but not thesis advisor)

Alicia Vogel (2010). *The developmental functional neuroanatomy of orthographic processing* (Chair, but not thesis advisor)

Katie Ihnen (2013). *The development of phonological processing* (Chair, but not thesis advisor)

Binyam Nardos (2015). *MVPA and word processing* (Chair, but not thesis advisor)

Ashley Nielsen (2019). *Neural Mechanisms of Specific Language Impairment* (Chair, but not thesis advisor)

Ben Seitzman (2019). *Individual representations of neural networks*. (Chair, but not thesis advisor)

Olga Neyman (present). *Functional Networks in Woffram's Syndrome* (Chair, but not thesis advisor)

Dillan Newbold (present). *Functional Network Plasticity Post Movement Constraint*

Rebecca Brenner (present). *Neonatal diffusion imaging and callous-unemotional traits*

Cat Camacho (present).

Nicole Seider (present).

Annie Zheng (present).

Doctoral Committee Member

Andrea Gebhart (2002). *The specific contributions of the posterolateral cerebellum to verbal and spatial learning in humans*.

Caroline Hollnagel (2002). *Working memory and inhibition in mild Parkinson's Disease*.

Ellen Landers (2003). *Mental disorder in a biomedical age: Problems with symptoms, perils of reduction*.

Michelle Kincaid (2004). *Attention Orienting Networks in the Human Brain: An Event-Related fMRI Investigation.*

Tim Brown (2005). *Progressive and regressive developmental changes in human cerebral functional organization.*

Erica Brandling-Bennet (2005). *Categorization during typical development.*

Greg Burgess (2005). *Relationships between GF, personality and academic success: Implications for understanding the neural mechanisms of executive control.*

Jeremy Reynolds (2005). *On the roles of duration and computational complexity in the recruitment of fronto-polar prefrontal cortex.*

Nico Dosenbach (2006). *Task set control.*

Vanessa Cabresse (2007 – SUNY Binghamton). *Context processing in high schizotypal individuals.*

Khena Swallow (2007). *Memory across event boundaries.*

Chad Sylvester (2007): *Mechanisms of top-down modulation of early visual signals.*

Tara McAuley (2007). *Modeling the relationship between speed, inhibition and working memory during typical development.*

Jessica Church (2008). *Functional Brain Development.*

Hannah Sypher-Locke (2008). *Motivational and personality influences on cognitive control and task performance.*

Steve Nelsen (2009). *Cortical components of retrieval.*

Alex Cohen (2010). *Defining functional regions using resting state connectivity.*

Rebecca Reese (2011). *Patient's perceptions of comorbid depression in patients with heart disease*

Gabe Arajuo (2010). *Response monitoring during typical development*

Kelly Theim (2010). *The nosological status of loss of control over eating in children.*

Pia Banerjee (2012). *Organizational strategic processing: A latent variable approach.*

Cheri Levinson (2013). *Manipulation of Negative Social Evaluative Fears on Body Dissatisfaction and Eating Behaviors: Does Fear of Social Evaluation Lead to Disordered Eating?*

Kim Chiew (2013). *Emotion versus motivation: Probing dissociable influences on cognitive control through task performance and pupillometry methods.*

Alicia Janos (2014). *Relationship between Serum Biomarkers and Three Month Outcomes following Pediatric Traumatic Brain Injury (TBI)*

Rachel Lean (2015). *Cognitive function in premature children*

Myra Altman (2016). *Evaluating a Targeted, Universal Middle School Program for Childhood Overweight and Obesity: StayingFit*

Haoxin Sun (2016). *On Control Systems of the Brain: A Study of Their Connections, Activations, and Interactions*

Matthew Glasser (2016). *Brain Parcellation.*

Michele Eisenberg (2017). *Is there a higher order mechanism that explains performance across prediction tasks?*

Caitlin Carey (2017). *Neurogenetics of the externalizing spectrum.*

Christina Rae Di Iorio (2018). *Biological and behavioral mechanisms underlying childhood physical abuse and age-related disease: Borderline personality pathology and inflammation*

David Baranger (2018). *Alcohol use, genetics and brain structure.*

Anna Hood (2018). *Cognitive Function in Sickle Cell Disease*

Debbie Yee (2019). *Neural Mechanisms of Motivational Incentive Integration and Cognitive Control*

Kathryn Mangin (present). *Parental stress and children with heart defects*

Catherine Demers (present). *Genomic Risk for Stress-related Psychopathology and Amygdala Structure and Function: An Evaluation of Neural Mechanisms Underlying Genomic Susceptibility*

Zack Markow (present). *HDDOT and Decoding*

Hajing Wu (present). *Decision-making in depression.*

Doctoral Committee Reader

Rebekah Honey (2002). *Cognitive and physiological correlates of discourse coherence disturbance symptoms in schizophrenia.* (University of Western Australia, Outside Reader)

Sharna Jamadar (2009). *Spatial and temporal dynamics of cognitive control.* (University of Newcastle in Australia, Outside Reader).

Carolyn Wilson (2010). *Inhibitory Control in Schizophrenia.* (University of Waterloo in Canada, Outside Reader).

Rachel Ellis (2014).

Undergraduate Honors Theses/Capstones

Jennifer Lofton Mathews (2001). *Assessing emotional processing in patients with schizophrenia using episodic memory for emotional and non-emotional words.*

Daniel Bagner (2001). *Working memory and language comprehension in schizophrenia.*

Becky Oswald (2002). *The relationships among cortisol, perceived life stress, and working memory function.*

Nick Eaton (2003). *The relationships between behavior, symptoms and brain activity in schizophrenia.*

Jess Yokley (2003). *Homograph priming in schizophrenia.*

Natalie Badows (2007). *Effects of prior substance abuse/dependence on functional brain activation in schizophrenia.*

Elias Wan (2008). *The Effects of Interference and Trait Anxiety on Working Memory in Different Memory Phases*

John Kuelper (2008). *Thought Insertion.*

Gabby Alvarez (2014-2015): *Depression and Cognition*

Abi Saxena (2014-2015): *Depression and Emotion Processing*

David Suh (2015-2016): *Depression, Rumination and Distractibility*

Zunaira Komal (2015-2016): *Model Based Learning of Loss Avoidance in Psychosis*

Kelsey Irwin (2015-2016): *Reward Processing in Depressed Preschoolers.*

Anita Mahadevan (2017-2018): *Dietary Tryptophan and Depression.*

Lisa Gorham (2018-2019): *Exercise, Depression and Hippocampal Connectivity in Children.*

LingyanYu (2018-2019): *Speech Coherence and Schizotypy*

Chase Antonacci (2018-2019): *Neuroimaging of parental dynamics*

Kayla Buttafuocco (2019-2020): *Medication and Subject Use Relationships to Effort-Based Decision Making in Psychosis*

Shirley Cai (2019-2020): *Familial Risk for Depression, Resting State Functional Connectivity, and Age of MDD Onset*

Payton Fors (2019-2020): *Electronic Media Use and Functional Brain Connectivity in*

Children

Mind Brain Undergraduate Students

Mara Kuns (2000)
Rebecca Oswald (2000)
Eli Zimmerman (2003)
Alana Gold (2004)
Laura Cobb (2006)
Tara Benesch (2007)
Rachel Cohen (2008)
Lauren Perlmutter (2009)
Jonathan Merrill (2010)
Nathan Schoen (2011)
David Suh (2013)
Sepora Makebeth (2014)
Rebecca Kolodner (2014)
Sally Dershowitz (2015)
Julia Ermel (2015)
Lisa Gorman (2016)
Kayla Buttafuco (2017)
Sofia Kamanzi (2018)

Undergraduate Research Supervision

2013-2014

Gaby Alvarez
Dana Apkon
Kaitlin Huennekens
Divya Kumar
Naomi Rawitz
Allison Rosengard
Yuji Jim

2014-2015

Jameson Mitchell
Callan Coghlan
Zunaira Komal
Nicole Wildstein
David Suh
Kaitlin Huennekens
Abhishek Saxena
Divya Kumar

2015-2016

David Lee
Jared Balbona
Maria Gehred
Julia Ermel
Anita Mahadevan

Jameson Mitchell
Callan Coghlan
Zunaira Komal
Nicole Wildstein
David Suh

2016-2017

Laura Cobb
Callan Coghlan
Lauren Fournier
Alicia Meng
Gina Vellequette
Jared Balbona
Maria Gehred
Julia Ermel
Anita Mahadevan

2017-2018

Rachel Ekker
Julia Ermel
Payton Fors
Frances Liberman
Lingyan Yu
Sally Dershwitz
Lauren Fournier
Alicia Meng

2018-2019

Payton Fors
Sam Grillo
Kristen Smalling
Catherine King
Shirley Cai
Sahee Abdelmomin

2019-2020

Catherine King
Sahee Abdelmomin
David Steinberger
Yueyue Qu
Jennifer Mansour
Jami Nguyen
John Biziorek