

Caterina Gratton, Ph.D.

cgratton@illinois.edu • grattonlab.org
405 N. Mathews Ave., Urbana, IL 61801

ACADEMIC APPOINTMENTS

- 2024 - present **University of Illinois at Urbana-Champaign**
Associate Professor of Psychology

Florida State University
Affiliated Faculty, Department of Psychology

Northwestern University
Affiliated Faculty, Department of Psychology
- 2022 - 2024 **Florida State University**
Associate Professor of Psychology and Neuroscience
Affiliated Faculty, Department of Psychology, Northwestern University
- 2018 - 2022 **Northwestern University**
Assistant Professor, Department of Psychology and Neurology

EDUCATION

- 2014 - 2018 **Postdoctoral Scholar**, Washington University in St. Louis
Advisor: Steve Petersen
Large-scale brain network properties and their roles in task control
- 2008 - 2013 **Ph.D.**, Helen Wills Neuroscience Program, University of California, Berkeley
Advisors: Mark D'Esposito and Michael Silver
Thesis: *Attention and Disruption: Modulating the interactions between large-scale brain networks and the properties of local cortical regions*
- 2004 - 2008 **B.S.**, Psychology & Neuroscience, University of Illinois at Urbana-Champaign
Summa Cum Laude, Highest Distinction
Advisor: Kara Federmeier
Honors Thesis: *In whole or in part? An ERP analysis of global/local processing asymmetries with naturalistic objects*

AWARDS AND HONORS

- 2023 Member, Center for Excellence in Computational Cognition (CoCo) - G Tech
2023 FSU Provost's Faculty Travel Grant
2022 Society for Neuroscience Invited "Meet the Expert" Speaker
2020 - 2021 Special Issue Editor, Current Opinion in Behavioral Sciences
2018 - present Associate Editor, Network Neuroscience
2017 American Psychological Society, Rising Star
2017 Society for Neuroscience, Trainee Professional Development Award

2015-2017	NIH/NINDS F32 National Research Service Award
2014-2015	NIH/NINDS T32 National Research Service Award (WUSTL Neurology)
2013	Society for Neuroscience Chapter Travel Award
2010 - 2013	NDSEG Graduate Research Fellowship
2008 - 2010	National Science Foundation Graduate Research Fellowship
2008	University of Illinois Bronze Tablet
2008	Michael Coles Award: Brain and Cognitive Psychology Award
2007 - 2008	Goldwater Foundation Scholarship
2007 - 2008	University of Illinois J. C. Weagant and W. G. Crist Memorial Scholarship
2006	University of Illinois Dad's Library Award
2004 - 2008	University of Illinois Robert Byrd Scholar
2004 - 2008	University of Illinois Chancellor's Scholar
2004 - 2005	FMC Award of Excellence (Scholarship)
2004	National Merit Finalist

GRANTS AND FELLOWSHIPS

Active

2023-2024	Florida State ISL Planning Grant Plasticity of brain networks supporting speech perception of older adults with hearing loss after hearing rehabilitation <i>Role:</i> Co-PI (PI: Z. Xie, FSU) <i>Award:</i> \$24,800
2023-2027	NIH/NINDS R01 R01NS124738: Precision Mapping Functional Connectivity in Parkinson's Disease <i>Role:</i> Co-PI (PI: M. Campbell, WUSTL) <i>Sub-Award:</i> \$941,801 (T: \$3,043,436)
2021-2026	NSF CAREER 2305698: Elucidating the role of brain hubs in task control <i>Role:</i> PI <i>Award:</i> \$967,191
2021-2024	NIH/NIMH R01 Administrative supplement R01MH118370-S1: Individual differences across the lifespan <i>Role:</i> PI <i>Award:</i> \$512,373
2019-2024	NIH/NIMH R01 R01MH118370: Sources and consequences of individual differences in human functional brain networks measured with fMRI <i>Role:</i> PI <i>Award:</i> \$2,882,952

Completed

2020-2022	Abu Dhabi Award for Research Excellence The structural and functional basis of working memory <i>Role:</i> Consultant (PI: K. Sreenivasan)
2019-2020	NIH/NIA: Mesulam Center Pilot

	Precision scanning of functional brain networks in older adults <i>Role:</i> Sub-project PI <i>Award:</i> \$35,000
2015-2017	NIH/NINDS NRSA F32 Examining vulnerable brain locations using network analysis <i>Role:</i> PI (Sponsor: Steve Petersen) <i>Award:</i> \$109,300
2014-2015	NIH/NINDS NRSA T32 WUSTL Neurology T32 <i>Role:</i> Trainee (Sponsor: Steve Petersen)
2010-2013	National Defense Science & Engineering Graduate Research Fellowship <i>Role:</i> PI <i>Award:</i> \$32,000/yr.
2008-2010	National Science Foundation Graduate Research Fellowship <i>Role:</i> PI <i>Award:</i> \$30,000/yr.

PUBLICATIONS

Profile: [Google Scholar](#)

Published

- 2024** [62] Siegel, J. S., Subramanian, S., Perry, D., Kay, B., Gordon, E. M., Laumann, T., Reneau, R., **Gratton, C.**, Horan, C., Metcalf, N., Chacko, R., Schweiger, J., Wong, D., Bender, D., Padawar-Curry, J., Raison, C., Raichle, M., Lenze, E. J., Snyder, A. Z., Dosenbach, N. U. F., Nicol, G. (2024). Psilocybin desynchronizes brain networks. *Nature*. <Previous version available at: [medRxiv](#) >
- [61] **Gratton, C.**, Ladwig, Z., Perez, D. C. (in press). What do network approaches add to our understanding of prefrontal cortex and executive function?. In: *Organization of Frontal Lobe Networks and Function: Localization and Interaction*, edited by M. T. Banich, S. N. Haber, and T. W., Robbins. Strüngmann Forum Reports, vol. 35, J. R. Lupp, series editor. Cambridge, MA: MIT Press.
- [60] Shenhav, A., Banich, M. T., Beste, C., Buschman, T. J., Friedman, N. P. **Gratton, C.**, Koechlin, E., O'Doherty, J., Schuck, N., Wang, X. J., (in press). Integrative psychological, computational, and mechanistic approaches to frontal lobe function. In: *Organization of Frontal Lobe Networks and Function: Localization and Interaction*, edited by M. T. Banich, S. N. Haber, and T. W., Robbins. Strüngmann Forum Reports, vol. 35, J. R. Lupp, series editor. Cambridge, MA: MIT Press.
- [59] Kraus, B. T., **Gratton, C.** (in press). Shared principles for disentangling heterogeneity in neuroscience and psychopathology. *Journal of Psychopathology and Clinical Science*.
- [58] Hermosillo, R. J. M., Moore, L. A., Fezcko, E., Pines, A., Pines, A., Dworetsky, A., Conan, G., Mooney, M.A., Randolph, A., Adeyemo, B., Earl, E., Perrone, A., Morales-Carrasco, C., Uriate-Lopez, J., Snider, K., Doyle, O., Cordova, M., Nagel, B. J., Ewing, S. W. F., Satterthwaite, T., Dosenbach, N.U.F.D, **Gratton, C.**, Petersen, S.E., Miranda-Dominguez, O., Fair, D.A. (2024). A Precision Functional Atlas of Network Probabilities

underline = trainee; * = equal contributions

and Individual-Specific Network Topography. *Nature Neuroscience*, 27(5), 1000-1013
<Preprint available at: [bioRxiv](#) >

[57] [Dworetzky, A.](#), Seitzman, B.A., Adeyemo, B., Nielsen, A. N., Hatoum, A. S., [Smith, D. M.](#), Nichols, T. E., Neta, M., Petersen, S.E., **Gratton, C.** (2024). Two common and distinct forms of variation in human functional brain networks. *Nature Neuroscience*.
<Preprint available at: [bioRxiv](#) >

[56] Butler, E. R., Miller, G. E., Samia, N., White, S., **Gratton, C.**, Nusslock, R. (2024). Neuroimmune mechanisms connecting violence with internalizing symptoms: a high dimensional multi-modal mediation analysis. *Human Brain Mapping*

2023

[55] Pierce, J.E., Petro, N.M., Clancy, E., **Gratton, C.**, Petersen, S.E., Neta, M. (2023). Specialized cingulo-opercular network activation in judging facial expressions in a slow reveal task. *Neuroimage* <Preprint available at: [bioRxiv](#)>

[54] [Porter, A.](#), [Fei, S.](#), Damme, K.S.F., Nusslock, R., **Gratton, C.***, Mittal, V.A.* (2023). A meta-analysis of single vs. multimodal neuroimaging techniques in the classification of psychosis. *Molecular Psychiatry*, 1-15 [*equal contributions]

[53] [Kraus, B.T.](#), Zinbarg, R., Braga, R.M., Nusslock, R., Mittal, V., **Gratton, C.** (2023). Insights from personalized models of brain and behavior for identifying biomarkers in psychiatry. *Neuroscience and Biobehavioral Reviews*, 105259 <Preprint available at: [PsyArXiv preprint](#)>

[52] [Smith, D. M.](#), [Kraus, B. T.](#), [Dworetzky, A.](#), Gordon, E.M., **Gratton, C.** (2023) Brain hubs defined in the group do not overlap with regions of high inter-individual variability. *Neuroimage*, 277, 120195. <Preprint available at: [bioRxiv](#)>

[51] Uddin, L. Q., Betzel, R. F., Cohen, J. R., Damoiseaux, J. S., De Brigard, F., Eickhoff, S. B., Fornito, A., **Gratton, C.**, Gordon, E. M., Laird, A. R., Larson-Prior, L., McIntosh, A. R., Nickerson, L. D., Pessoa, L., Pinho, A. L., Poldrack, R. A., Razi, A., Sadaghiani, S., Shine, J. M., Yendiki, A., Yeo, B. T., Spreng, R. N. (2023). Controversies and progress on standardization of large-scale brain network nomenclature. *Network Neuroscience*, 1-111. <Preprint available at: [OSF Preprint](#)>

[50] Gordon, E.M., Chauvin, R.J., Van, A. N., Rajesh, A., Nielsen, A., Newbold, D. J., Lynch, C. J., Seider, N. A., Krimmel, S. R., Scheidter, K. M., Monk, J., Miller, R. L., Metoki, A., Montez, D. F., Zheng, A., Elbau, I., Madison, T., Nishino, T., Myers, M. J., Kaplan, S., D'Andrea, C. B., Demeter, D. V., Feigelis, M., Barch, D. M., Smyser, C. D., Rogers, C. E., Zimmermann, J., Botteron, K. N., Pruett, J. R., Willie, J. T., Brunner, P., Shimony, J. S., Kay, B. P, Marek, S., Norris, S. A., **Gratton, C.**, Sylvester, C. M., Power, J. D., Liston, C., Greene, D. J., Roland, J. L., Petersen, S. E., Raichle, M. E., Laumann, T. O., Fair, D. A., Dosenbach, N.U.F. (2023) A somato-cognitive action network alternates with effector regions in motor cortex. *Nature*, 1-9 <Preprint available at: [bioRxiv](#) >

- News and Views: Leopold, D. A. (2023). A redrawn map for the human motor cortex. *Nature*
- Spotlight: Graziano, M.S.A. (2023). Fundamental principles of cortical organization reflected in a new study. *Neuron*

- [49] [Perez, D.R.](#), [Dworetsky, A.](#), Braga, R.M., Beeman, M., **Gratton, C.** (2023) Hemispheric asymmetries of individual differences in functional connectivity. *Journal of Cognitive Neuroscience*, 35 (2), 200-225. <Preprint available at: [bioRxiv](#) >
- 2022 [48] [Yu, Y.](#), **Gratton, C.**, [Smith, D. M.](#) (2022). From correlation to communication: disentangling hidden factors from functional connectivity changes. *Network Neuroscience*, 7 (2), 411-430. <Previous version available at: [bioRxiv](#) >
- [47] [Ladwig, Z.](#), Seitzman, B.A., Adeyemo, B., [Yu, Y.](#), [Smith, D.](#), Petersen, S.E., **Gratton, C.** (2022). BOLD co-fluctuation 'events' are predicted from static functional connectivity. *Neuroimage*, 260 (15), 119476 <Previous version available at: [bioRxiv](#) >
- [46] [Ladwig, Z.](#), [Yu, Y.](#), **Gratton, C.** (2022). Combined methods reveal task activation dynamics in human brain networks. *PLOS Biology*. 20 (8), e3001749
- [45] [Porter, A.](#), Nielsen, A.N., [Dorn, M.](#), [Dworetsky, A.](#), [Edmonds, D.](#), **Gratton, C.** (2023) Masked features of task states found in individual brain networks. *Cerebral Cortex*. 33 (6), 2879-2900 <Previous version available at: [bioRxiv](#)>
- [44] **Gratton, C.**, Nelson, S. M., Gordon, E. M. (2022). Brain-behavior correlations: two paths toward reliability [Invited Spotlight]. *Neuron*. 110 (9), 1446-1449
- 2021 [43] Zheng, A., Montez, D. F., Marek, S., Gilmore, A. W., Newbold, D. J., Laumann, T. O., Kay, B. P., Seider, N. A., Van, A. N., Hampton, J., M., Alexopolous, D., Scheidter, K. M., Miller, R. L., Schlaggar, B. L., Sylvester, C., Petersen, S. E., Greene, D. J., Shimony, J. S., Nelson, S. M., Wig, G. S., **Gratton, C.**, McDermott, K., B., Raichle, M. E., Gordon, E. M., Dosenbach, N.U.F. (2021). Parallel hippocampal-parietal circuits for self- and goal-oriented processing. *PNAS*. <Previous version available at [bioRxiv](#)>
- [42] **Gratton, C.**, Braga, R. M. (2021). Editorial Overview: Deep imaging of the individual brain: past, practice, and promise. *Current Opinions in Behavioral Sciences*.
- [41] [Dworetsky, A.](#), Seitzman, B. A., Adeyemo, B., Coalson, R.S., Neta, M., Petersen, S. E., **Gratton, C.** (2021). Probabilistic mapping of human functional brain networks. *Neuroimage*, 237, 118164 <Previous version available at [bioRxiv](#) >
- [40] Anderson, Z., **Gratton, C.**, Nusslock, R. (2021). The value of hyperalignment to unpack neural heterogeneity in the precision psychiatry movement (Correspondence). *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*
- [39] [Kraus, B. T.](#), [Perez, D. R.](#), [Ladwig, Z.](#), Seitzman, B. A., [Dworetsky, A.](#), Petersen, S. E., **Gratton, C.** (2021). Network variants are similar between task and rest states. *Neuroimage*, 229, 117743 <Previous version available at [bioRxiv](#)>
- [38] [Smith, D. M.](#), [Perez, D. R.](#), [Dworetsky, A.](#), [Porter, A.](#), **Gratton, C.** (2021). Light through the fog: Using precision fMRI to disentangle the neural substrates of cognitive control. *Current Opinion in Behavioral Sciences*, 40, 19-26. <Previous version available at [PsyArXiv](#) >
- 2020 [37] **Gratton, C.**, Mittal, V. A. (2020). Embracing the complexity of heterogeneity in schizophrenia: A new perspective from latent clinical-anatomical dimensions. (Invited Editorial). *Schizophrenia Bulletin*, 46 (6), 1337-1338
- [36] Gordon, E.M., Laumann, T. O., Marek, S., Raut, R. V., **Gratton, C.**, Gilmore, A. W.,

Newbold, D. J., Greene, D. J., Coalson, R. S., Snyder, A. Z., Schlaggar, B. L., Petersen, S. E., Dosenbach, N. U. F. D., Nelson, S. M. (2020) Default mode network streams for coupling to language and controls systems. *Proceedings of the National Academy of Sciences*, 117 (29), 17308-17319

[35] Okerstrom-Jezewski, K. L., Grafft, A., Denburg, N., Bruss, J., Deifelt Streese, C., **Gratton, C.**, Tranel., D. (2020). How early damage to the dorsomedial prefrontal hub in human brain networks affects long term cognitive, behavioral, and neuroanatomical outcomes. *Psychology and Neuroscience*, 13 (3), 245

[34] **Gratton, C.**, Dworetzky, A., Coalson, R. S., Adeyemo, B., Laumann, T. O., Wig, G., Kong, T.S., Gratton, G., Fabiani, M., Barch, D. M., Tranel, D., Miranda-Dominguez, O., Fair, D. A., Dosenbach, N.U.F.D., Snyder, A.Z., Perlmuter, J.S., Petersen, S.E., Campbell, M.C. (2020). Removal of high frequency contamination from motion estimates in single-band fMRI saves data without biasing functional connectivity. *Neuroimage*, 217, 116866 <Previous version available at: [bioRxiv](#).>

[33] **Gratton, C.**, Smith, D. M., Dorn, M. (2020). Digging deeper to chart the landscape of human brain development. *Neuron*, 106 (2), 209-211. <Invited Preview to: *Individual variation in functional topography of association networks in youth*>

[32] Fair, DA, Miranda-Dominguez, O, Perrone, A, Earl, EA, Van, AN, Koller, JM, Feczko, E, Klein, RL, Mirro, AE, Hampton, JM, Adeyemo, B, Snyder, AZ, Nguyen, A, Laumann, TO, **Gratton, C.**, Greene, DJ, Schlaggar, BL, Hagler, D, Watts, R, Garavan, H, Barch, DM, Casey, BJ, Nigg, JT, Petersen, SE, Dale, A, Feldstein-Ewing, SW, Nagel, BJ, Dosenbach, NUF (2020). Correction of respiratory artifacts in MRI head motion estimates. *Neuroimage*, 208, 116400 <previous version available at [bioRxiv](#) >.

[31] Greene, DJ, Marek, S, Siegel, JS, Gordon, EM, **Gratton, C.**, Newbold, DJ, Ortega, M, Laumann, TO, Miller, DB, Zheng, A, Lopez, KC, Berg, JJ, Coalson, RS, Nguyen, AL, Dierker, D, Van, AN, Hoyt, CR, McDermott, KB, Norris, SA, Shimony, JS, Snyder, AZ, Nelson, SM, Barch, DM, Schlaggar, BL, Raichle, ME, Petersen, SE, Dosenbach, NUF. (2020). Individual specific and shared integrative zones of the human thalamus and basal ganglia. *Neuron*. 105(4):742-758. PMID: 31836321

- Preview: Lynch, C. J., & Liston, C. (2020). Precision Functional Mapping of Corticostriatal and Corticothalamic Circuits: Parallel Processing Reconsidered. *Neuron*, 105(4), 595-597.

[30] **Gratton, C.**, Kraus, B.T., Greene, D.J., Gordon, E.M., Laumann, T.O., Nelson, S. M., Dosenbach, N.U.F., Petersen, S.E. (2020). Defining individual-specific functional neuroanatomy for precision psychiatry (Invited Review). *Biological Psychiatry*.

[29] Kong, TS, **Gratton, C.**, Low, KA, Tan, CH, Chiarelli, AM, Fletcher, MA, Zimmerman, B, Maclin, EL, Gratton, G, Fabiani, M. (2020) Age-related differences in functional brain network segregation are associated with a cascade of cerebrovascular, structural, and cognitive effects. *Network Neuroscience*, 1-26.

[28] Seitzman, BA, **Gratton, C.**, Marek, S, Raut, RV, Dosenbach, NUF, Schlaggar BL, Petersen SE, Greene DJ. (2020) A set of functionally-defined brain regions with improved representation of the subcortex and cerebellum. *Neuroimage*, 116290. [bioRxiv](#). [PubMed](#).

- [27] Nielsen, AN, **Gratton, C.**, Church, JA, Dosenbach, NUF, Black, KJ, Petersen, SE, Schlaggar, BL, Greene, DJ. (2020) Atypical functional connectivity in Tourette Syndrome differs between children and adults. *Biological Psychiatry*. [bioRxiv](#). [PubMed](#).
- 2019**
- [26] Seitzman, BA*, **Gratton, C.***, Laumann TO, Gordon EM, Adeyemo B, Dworesky, A, Kraus, BT, Gilmore AW, Berg JJ, Ortega M, Nguyen, A, Greene DJ, McDermott KB, Nelson SM, Lessov-Schlaggar, CN, Schlaggar BL, Dosenbach NUF, Petersen SE. (2019). Trait-like variants of human functional brain networks. *PNAS*, 116 (45), 22851-22861. [PubMed](#).
- Commentary: D'Esposito, M. (2019). Are individual differences in human brain organization measured with functional MRI meaningful?. Proceedings of the National Academy of Sciences, 116(45), 22432-22434.
- [25] Betzel, R.F., Bertolero, M. A., Gordon, E.M., **Gratton, C.**, Dosenbach, N.U.F., Bassett, D.S. (2019). The community structure of functional brain networks exhibits scale-specific patterns of variability across individuals and time. *Neuroimage*, 202, 115990. [bioRxiv](#). [PubMed](#).
- [24] Gilmore, AW, Nelson, SM, Laumann, TO, Gordon, EM, Berg, JJ, Greene, DJ, **Gratton, C.**, Nguyen, AL, Ortega, M, Hoyt, C, Coalson, RS, Schlaggar, BL, Petersen, SE, Dosenbach, NUF, McDermott, KB. (2019). High-fidelity mapping of repetition-related changes in the parietal memory network. *Neuroimage*, 199, 427-439. [PubMed](#).
- 2018**
- [23] Marek, S, Siegel, JS, Gordon, EM, Raut, RV, **Gratton, C.**, Newbold, DJ, Ortega, M, Laumann, TO, Miller, DB, Zheng, A, Lopez, KC, Berg, JJ, Coalson, RS, Nguyen, AL, Dierker, D, Van, AN, Hoyt, CR, McDermott, KB, Norris, SA, Shimony, JS, Snyder, AZ, Nelson, SM, Barch, DM, Schlaggar, BL, Raichle, ME, Petersen, SE, Greene, DJ, Dosenbach, NUF. (2018) Spatial and temporal organization of the individual human cerebellum. *Neuron*, 100 (4), 977-993. [PubMed](#).
- Preview: Fair, D. A. (2018). The Big Reveal: Precision Mapping Shines a Gigantic Floodlight on the Cerebellum. *Neuron*, 100(4), 773-776.
- [22] Gordon, EM, Lynch, CJ, **Gratton, C.**, Laumann, TO, Gilmore, AW, Greene, DJ, Ortega, M, Nguyen, AL, Schlaggar, BL, Petersen, SE, Dosenbach, NUF, Nelson, SM (2018). Three distinct sets of connector hubs integrate human brain function. *Cell Reports*, 24(7), 1687-1695. [PubMed](#)
- [21] **Gratton, C.**, Koller, JM, Shannon, W, Greene, DJ, Snyder, AZ, Petersen, SE, Perlmuter, JS, Campbell, MC. (2018). Emergent functional network effects in Parkinson disease. *Cerebral Cortex*, 6, 2509-2523 [PubMed](#)
- [20] Nielsen, A, Greene, DJ, **Gratton, C.**, Dosenbach, NUF, Petersen, SE, Schlaggar, BL (2018). Evaluating the prediction of brain maturity from functional connectivity after motion artifact de-noising. *Cerebral Cortex*. [PubMed](#)
- [19] **Gratton, C.**, Laumann, TO, Nielsen, AN, Greene, DJ, Gordon, EM, Gilmore, AW, Nelson, SM, Coalson, RS, Snyder, AZ, Schlaggar, BL, Dosenbach, NUF, Petersen, SE (2018). Functional brain networks are dominated by stable group and individual factors, not cognitive or daily variation, *Neuron*, 98(2) 439-452. [PubMed](#)
- Preview: Satterthwaite, T. D., Xia, C. H., & Bassett, D. S. (2018). Personalized

neuroscience: Common and individual-specific features in functional brain networks. *Neuron*, 98(2), 243-245.

- [18] **Gratton, C.**, Sun, H, Petersen, SE. (2018). Control networks and hubs (Invited Review). *Psychophysiology*, 55 (3), e13032. [PubMed](#)
- 2017 [17] Gordon, EM, Laumann, TO, Gilmore, AW, Newbold, DJ, Greene, DJ, Berg, JJ, Ortega, M, Hoyt-Drazen, C, **Gratton, C.**, Sun, H, Hampton, JM, Coalson, RS, Nguyen, A, McDermott, KB, Shimony, JS, Snyder, AZ, Schlaggar, BL, Petersen, SE, Nelson, SM, Dosenbach NUF. (2017). Precision functional mapping of individual human brains. *Neuron*, 95 (4), 791-807. [PubMed](#)
- [Preview](#): Poldrack, R. A. (2017). Precision neuroscience: Dense sampling of individual brains. *Neuron*, 95(4), 727-729.
- [16] **Gratton, C.**, Yousef, S, Aarts, E, Wallace, D, D’Esposito, M, Silver, MA. (2017). Cholinergic, but not dopaminergic or noradrenergic, enhancement sharpens visual spatial perception in humans. *Journal of Neuroscience*, 37 (16), 4405-4415 [PubMed](#)
- 2016 [15] **Gratton, C.**, Laumann, T, Gordon, E, Adeyemo, B, Petersen, S. (2016) Evidence for two independent factors that modify brain networks to meet task goals. *Cell Reports*, 17(5), 1276-1288. [PubMed](#)
- [14] Laumann, TO, Snyder, AZ, Mitra, AM, Gordon, EM, **Gratton, C.**, Adeyemo, B, Gilmore, AG, Nelson, SM, Berg, JJ, Greene, DJ, McCarthy, JE, Tagliazucchi, E, Laufs, H, Schlaggar, BL, Dosenbach NUF, Petersen, SE. (2016) On the stability of resting state fMRI correlations. *Cerebral Cortex*, 27 (10), 4719-4732. [PubMed](#)
- [13] **Gratton, C.**, Neta, M, Sun, H, Ploran, EJ, Schlaggar, BL, Wheeler, ME, Petersen, SE, Nelson, SM. (2016) Distinct stages of moment-to-moment processing in the cinguloopercular and frontoparietal networks. *Cerebral Cortex*, 27 (3), 2403-2417. [PubMed](#)
- 2015 [12] Arnemann, KL, Chen, AJW, Novakovic-Agopian, T, **Gratton, C.**, Nomura, EM, D’Esposito M. (2015). Functional brain network modularity predicts response to cognitive training after brain injury. *Neurology*, 84 (15), 1568-1574. [PubMed](#)
- 2014 [11] **Gratton, C.***, Lee, T*, Nomura, EM, D’Esposito, M. (2014). Perfusion MRI indexes variability in the functional brain effects of theta-burst transcranial magnetic stimulation. *PLOS ONE*, 9(7): e101430. PMID: PMC4081571; [PubMed](#)
- [10] Sreenivasan, KK, **Gratton, C.**, Vytlačil, J, D’Esposito, M. (2014) Evidence for working memory storage operations in perceptual cortex. *Cognitive, Affective, and Behavioral Neuroscience*, 14, 117-128 [PubMed](#)
- 2013 [9] **Gratton, C.**, Lee, T, Nomura, EM, D’Esposito, M. (2013). The effect of theta-burst TMS on cognitive control networks measured with resting state fMRI. *Frontiers in Systems Neuroscience*, 7, 124. PMID: PMC3874542 [PubMed](#)
- [8] **Gratton, C.**, Sreenivasan, KK, Silver, MA, D’Esposito, M. (2013). Attention selectively modifies the representation of individual faces in the human brain. *Journal of Neuroscience*, 33, 6979-6989, PMID: PMC3685582 [PubMed](#)
- [7] Blumenfeld, R, Nomura EM, **Gratton, C.**, D’Esposito M. (2013). Lateral prefrontal

cortex is organized into parallel dorsal and ventral streams along the rostro-caudal axis. *Cerebral Cortex*, 23(10), 2457-66, PMID: PMC3767956 [PubMed](#)

[6] Li, L, **Gratton, C.**, Fabiani, M, Knight, R. T. (2013). Age-related frontoparietal changes during the control of bottom-up and top-down attention: an ERP Study. *Neurobiology of Aging*. 34, 477-488. PMID: PMC4090105 [PubMed](#)

2012 [5] **Gratton, C.***, Nomura, EM*, Perez, F, D'Esposito, M. (2012). Focal brain lesions to critical locations cause widespread disruption of the modular organization of the brain. *Journal of Cognitive Neuroscience*, 24, 1275-1285. PMID: PMC3575518 [PubMed](#)

[4] Bahlmann, J, Korb FM, **Gratton, C.**, Friederici AD. (2012). Levels of integration in cognitive control and sequence processing in the prefrontal cortex. *PLOS ONE*, 7(8): e43774. PMID: PMC3430694 [PubMed](#)

2010 [3] Nomura, EM, **Gratton, C.**, Visser, RM, Kayser, A, Perez, F, & D'Esposito, M. (2010). Double dissociation of two cognitive control networks in patients with focal brain lesions. *Proceedings of the National Academy of Sciences of the United States of America*, 107(26), 12017-12022. PMID: PMC2900657 [PubMed](#)

[2] Li, L, **Gratton, C.**, Yao, D, & Knight, RT. (2010). Role of frontal and parietal cortices in the control of bottom-up and top-down attention in humans. *Brain research*, 1344, 173-84. Elsevier B.V. PMID: PMC2900444 [PubMed](#)

2009 [1] **Gratton, C.**, Evans, KM, Federmeier, KD. (2009). See what I mean? An ERP study of the effect of background knowledge on novel object processing. *Memory and Cognition*. 37, 277-291. PMID: PMC2682721 [PubMed](#)

Pre-publication

Submitted **Gratton, C.***, Dworetzky, A.*, Adeyemo, B., Seitzman, B.A., Smith, D.M., Petersen, S.E., Neta, M. (revise and resubmit) The cinguloopercular network is composed of two distinct sub-systems. [bioRxiv](#)

Kong, R., Spreng, R. N., Xue, A. Betzel, R. F., Cohen, J. R., Damoiseaux, J. S., De Brigard, F., Eickhoff, S. B., Fornito, A., **Gratton, C.**, Gordon, E.M., Holmes, A., Laird, A. R., Larson-Prior, L., Nickerson, L. D., Pinho, A. L., Razi, A., Sadaghiani, S., Shine, J. M., Yendiki, A., Yeo, B. T., Uddin, L. Q., (revise and resubmit) . A network correspondence toolbox for quantitative evaluation of novel neuroimaging results. [bioRxiv](#)

Kwon, Y., Salvo, J.J., Anderson, N., Holubecki, A., Lakshman, M., Yoo, K., Kay, K., **Gratton, C.**, Braga, R.M. (revise and resubmit). Situating the parietal memory network in the context of multiple parallel distributed networks using high-resolution functional connectivity. [bioRxiv](#)

Hafeman, D. M., Feldman, J., Mak, J., Merranko, J., Goldstein, T. R., **Gratton, C.**, Phillips, M. L., Birmaher, B. (submitted). Longitudinal stability of reward related resting-state networks in youth with Bipolar-I/II Disorder.

Lee, H. J., Smith, D. M., Dworetzky, A., Kraus, B.T., Hauenstein, C. E., Dorn, M., Nee, D. E., **Gratton, C.** (revise & resubmit). Precise individual measures of inhibitory control. [PsyArXiv](#)

Laumann, T. O., Snyder, A. Z., **Gratton, C.** (revise & resubmit) Challenges in the measurement and interpretation of dynamic functional connectivity.

Perez, D. C., Hernandez, J. J., Wulfekuhle, G., Gratton, C. (revise & resubmit) Variation in brain aging: A review and perspective on the utility of individualized approaches to the study of functional networks in aging.

Lee, H.J., Gratton, C. (revise and resubmit). Using precision approaches to improve brain-behavior prediction. [Invited Review, *Trends in Cognitive Sciences*]

Cohen, J.R., **Gratton, C.** (submitted). Functional Networks and Working Memory. In: *The Neural Architecture of Human Working Memory*, edited by M. D'Esposito.

In preparation **Gratton, C.** & Braga, R.M. (in prep, 2025 target date) Dense phenotyping using fMRI. *Annual Review of Psychology* [invited].

INVITED TALKS

- 2024** [tb] Invited speaker, Neuroscience Seminar Series, **University of Colorado-Boulder**, Boulder, CO
 Invited speaker, Functional MRI Speaker Series, **University of Michigan**, Ann Arbor, MI
 Invited speaker, Psychology Department, **Carnegie Mellon University**, Pittsburgh, PA
- 2023** Invited speaker, Psychology Department, **University of Illinois**, Champaign-Urbana, IL
 Invited speaker, Brain and Cognitive Sciences, **University of Rochester**, Rochester, NY
 Invited speaker, MUSC Center for Biomedical Imaging Series, **University of South Carolina**
- 2022** Invited speaker, Center for Neuromodulation in Depression and Stress, **University of Pennsylvania**
 Invited speaker, Biomedical Engineering Grad Seminar Series, **Penn State University**
 Invited speaker, fMRI Brown Bag, **Dartmouth College**
- 2021** Invited speaker, Neuroscape Center, **University of California, San Francisco**
 Invited speaker, Neuroimaging Center, **The Ohio State University**
 Invited speaker, Neuro PRISMH, **University of Minnesota**
 Invited speaker, **Japanese Meeting for Human Brain Mapping**, Seminar Series
 Invited speaker, Psychology Seminar, **University of Illinois**
 Invited speaker, **ABCD** ("A Bunch of Control Datablitzes") Joint Lab Meeting, Organizers: Roshan Cools, Tobias Egner, David Badre, & Ross Otto
 Invited speaker, Psychology: Cognitive Neuroscience Seminar, **UT Austin**
 Invited speaker, Neuroscience Seminar, **Loyola University**
- 2020** Invited speaker, Psychology Seminar, **Florida State University**
 Invited speaker, Dosenbach-Greene Lab Meeting, **Washington University in St. Louis**

- Invited speaker, C3N Lecture Series, **Columbia University**
- Invited speaker, Feindel Brain & Mind Lecture Series, **Montreal Neurological Institute**
- Invited speaker, Neuroimaging Labs Seminar, **Washington University in St. Louis**
- Invited speaker, Centre for Sleep and Cognition, **National University of Singapore**
- Invited speaker, Brain Networks & Behav Group, **Indiana University**
- Invited speaker, Hotchkiss Brain Institute, **University of Calgary**, Calgary, Alberta, CA
- Invited speaker, Psychology Department Winter Cognition Workshop, **University of Chicago**, Chicago, IL
- 2019** Invited speaker, Mathematical & Computational Cog. Sci. Colloquium, **Purdue**, West Lafayette IN
- 2018** Invited speaker, Psychology Department, **Washington University in St. Louis**, St. Louis, MO
- Invited speaker, Functional MRI Speaker Series, **University of Michigan**, Ann Arbor, MI
- 2017** Invited speaker, MIND Summer School, **Dartmouth College**, Hanover, NH
- Invited speaker, Core Outreach Workshop, **University of Nebraska-Lincoln**, Lincoln, NE
- Invited speaker, Psychology Department, **University of Oregon**, Eugene, OR
- Invited speaker, Psychology Department, **Northwestern University**, Chicago, IL
- Invited speaker, Brain and Mind Institute, **Western University**, London, Ontario, Canada
- 2016** Invited speaker, Psychological and Brain Sciences, **Dartmouth College**, Hanover, NH
- Invited speaker, Cognitive Neuroscience Brownbag, **University of Illinois**, Urbana-Champaign, IL
- Invited speaker, CMRR, **University of Minnesota**, Minneapolis, MN
- Invited speaker, Psychology Department, **University of Toronto**, Toronto, Canada
- Invited speaker, Cognition and Neuroscience Seminar, **University of Missouri**, Columbia, MO
- Invited speaker, Center for Mind & Brain, **University of California, Davis**, Davis, CA
- 2013** Invited speaker, Neuroimaging Laboratories, **Washington University in St. Louis**, St. Louis, MO
- Invited speaker, Cognitive Neuroscience Brownbag, **University of Illinois**, Urbana-Champaign, IL
- Invited speaker, Brain Imaging Center Series, **University of Texas at Austin**, Austin, TX

CONFERENCE PROCEEDINGS

Talks: Selected and Invited

- 2024** Kraus, B & Gratton, C.. "Stable variations in human brain network architecture: applications to psychopathology". Invited speaker in symposium on *Brain State and Trait Dynamics in Mental Illness*, **Organization for Human brain mapping**, Seoul, South Korea, June 2024
- 2023** Gratton, C. "States and Traits in Human Brain Networks". Invited speaker in symposium on *Task vs. Rest-Generated Signal*, **Resting State Brain Connectivity**, Dallas, Texas, September 2023
- Gratton, C. "Individualized approaches provide new insights into PFC network organization and function". Selected symposium on *Taking a deep look at executive control: individualized neuroimaging of frontal lobe function*. Presented at the **Organization for Human Brain Mapping**, Montreal, Canada, July 2023
- Gratton, C. "Individual differences in brain networks: implications for studies of cognitive control". Presented at the **Florida Consortium on the Neurobiology of Cognition**, Jupiter, FL, May, 2023
- Gratton, C. "From states to stability in functional brain networks". Presented at **WUNIC Symposium & S. E. Petersen Festschrift**, St. Louis, MO, March, 2023.
- Gratton, C. "Shifting borders and ectopic intrusions: dissociable forms of idiosyncratic brain organization". Presented at the 7th **Whistler Scientific Workshop on Brain Functional Organization, Connectivity, and Behavior**, Whistler, CA, February, 2023
- 2022** Gratton, C. "Gaining 'precision': studying individuals to gain new insights into human brain networks and their role in complex cognition". Invited presenter for *Meet-the-Expert series* at the **Society for Neuroscience**. San Diego, CA, November 2022.
- Gratton, C. "Common sources of variation in functional brain networks" Speaker in educational symposium on *Dynamic Functional Connectivity*. Presented at the **Organization for Human Brain Mapping**, Glasgow, Scotland, June, 2022.
- Gratton, C. "Precision fMRI of individual human brain networks". Invited speaker in session on *Connectome based predictions*. Presented at the **Brain Connectivity Workshop**, June 2022.
- 2021** Gratton, C. "Insights and Applications of Precision fMRI" in session on *Sensitivity and specificity in fMRI studies*. Invited speaker at the **13th Biennial Minnesota Workshop**, October 2021.
- Gratton C. "States and Traits in Functional Networks". Invited speaker at the **ACNN Workshop**, September, 2021
- Gratton, C. "Timescales of variation in human functional brain networks." Speaker in educational symposium on *Dynamic Functional Connectivity*. **Organization for Human Brain Mapping**, May 2021.
- Gratton, C. "Characteristics of Individual Differences in Functional Brain Networks". Invited speaker at the **Social and Affective Neuroscience Society**, April 2021
- 2020** Gratton, C. "Precision measurements reveal trait-like variation in human functional brain networks." Speaker in selected symposium on *Measuring the Individual*:

Understanding sources of variability in task and rest. **Organization for Human Brain Mapping**, June, 2020.

Gratton, C. "Timescales of variation in human functional brain networks." Speaker in selected educational symposium on *Dynamic Functional Connectivity*. Presented at the **Organization for Human Brain Mapping**, June, 2020.

2019 Gratton, C. "Precision measurements reveal stability and individual differences in human functional brain networks." Speaker in selected symposium on Towards Understanding Individual Variability with Functional Neuroimaging: Big data and deep data perspectives. Presented at **Cognitive Neuroscience Society**, San Francisco, CA, USA, March, 2019.

2018 Gratton C. "The dominance of intersubject variability in functional brain networks". Invited speaker at the **American Neurological Association** Annual Conference, Atlanta, GA, USA, October, 2018

Gratton C. "States and stability in human functional brain networks". Invited participant at the **Sante Fe Institute, Working Group on Cognitive Regime Shifts I**, Santa Fe, NM, USA, July, 2018

Gratton C. "Dissecting sources of variance in human functional brain networks". Selected presentation at the **Whistler Scientific Workshop on Brain Functional Organization, Connectivity, and Behavior**, Whistler-Blackcomb, BC, Canada, March, 2018

2017 Gratton C. "Task goals tune brain networks: characterization of contributing factors". Speaker in selected symposium on *Multimodal Functional Cartography: from Connectivity to Cognition*. Presented at **Organization for Human Brain Mapping**, Vancouver, BC, Canada, June, 2017

2015 Gratton C. "Properties that contribute to functional connectivity differences between task and rest". Speaker in selected nanosymposium on *Human Brain Networks*. **Society for Neuroscience**, Chicago, IL, USA, October 2015

2014 Gratton, C. "Changes in the magnitude and organization of large-scale network interactions after focal disruption, as measured in humans with resting state fMRI." Speaker in selected symposium workshop on *The 'Dys-connectome': effects of focal injury on the brain's functional organization and behavior*. Presented at **Organization for Human Brain Mapping**, Hamburg, Germany, June, 2014.

Session Chair or Organizer

2023 Co-chair of Symposium: *Taking a deep look at executive control: individualized neuroimaging of frontal lobe function*. **Organization for Human Brain Mapping**, Montreal, Canada, July, 2023.

2022 Co-chair of Symposium: *Insights into human cognition from precision fMRI of individuals*. **Cognitive Neuroscience Society**, San Francisco, CA, April, 2022.

2020 Co-chair on session on *Modeling and Analysis - Variability in Brain Activation*. **Organization for Human Brain Mapping**, June, 2020.

- 2019** Co-chair of Symposium on *Towards Understanding Individual Variability with Functional Neuroimaging: Big data and deep data perspectives*. **Cognitive Neuroscience Society** San Francisco, CA, USA, March, 2019.

Panels and Workshops

- 2022** Workshop member for developing new BIDS conventions for connectivity related data. **BIDS connectivity workshop**, September 2022.
- 2021** Discussion panel member for session on “Deep neuroimaging data - a community perspective”. **Brainhack @ Organization for Human Brain Mapping (OHBM)**, June 2021.
- Discussion panel member for session on “Highly-sampled individuals & Well-sampled Populations”. **International Society of Magnetic Resonance in Medicine (ISMRM)**, April 2021.

Conference posters (underline = trainees)

- 2024** Campbell, M., Grossen, S., Carr, E., Song, D., Seitzman, B., Dworetsky, A., **Gratton, C.** (abstract). Precision-mapping functional connectivity in Parkinson Disease: Feasibility and reliability. Presented at the Annual Academy of Neurology, April, 2024.
- Porter, A., Damme, K.S.F., Mittal, V., **Gratton, C.** (abstract). Individual data quantity has a strong impact on the prediction of psychosis distress from functional connectivity in the ABCD study. Presented at SIRS Meeting, April, 2024.
- Perez, D.C., Wulfekuhle, G., Hernandez, J.J., Gordon, E.M., **Gratton, C.** (abstract). A comparison of functional connectivity metrics from individual-specific and group-derived cortical parcellations in younger and older adults. Presented at OHBM, June, 2024.
- Ladwig, Z., Labora, N., Dorn, M., Hernandez, J.J., Braga, R.M., **Gratton, C.** (abstract). The organization of specialized and domain-general control regions in the LPFC evaluated using precision fMRI. Presented at OHBM, June, 2024.
- Kraus, B.T., Nusslock, R., **Gratton, C.** (abstract). Longitudinal stability of individual differences in functional connectivity in psychopathology. Presented at OHBM, June, 2024.
- [tb]** Chernicky, J., Dworetsky, A., Grossen, S., Carr, E., Eid, A., Norris, S., Campbell, M., **Gratton, C.** (abstract). Functional brain network stability in Parkinson’s Disease. Submitted to SFN, October, 2024.
- [tb]** Ladwig, Z., Labora, N., Dorn, M., Hernandez, J.J., Braga, R.M., **Gratton, C.** (abstract). Evaluating fine scale functional organization in the LPFC using precision fMRI. Submitted to SFN, October, 2024.
- [tb]** Housteau, E., Ladwig, Z., **Gratton, C.** (abstract). The subcortical connectivity of prefrontal visual and auditory biased regions. Submitted to SFN, October, 2024.
- [tb]** Kraus, B.T., Porter, A., Ristanovic, I., Anderson, Z., Damme, K., Zinbarg, R., Mittal,

V., Nusslock, R., Craske, M., **Gratton, C.** (abstract). The low identifiability of psychopathology measures hinders clinical neuroscience research. Submitted to SFN, October, 2024.

2023

Labora, N., Dorn, M., Smith, D. M., Dworetsky, A., Gratton, C. (abstract). Individual variation in task signals from a precision fMRI dataset. Presented at Society for Neuroscience, November, 2023.

Wulfekuhle, G., Perez, D. R., Ladwig, Z., Dworetsky, A., Gordon, E. M., Gratton, C. (abstract). A comparison of connector hub regions across individuals. Presented at Society for Neuroscience, November, 2023.

Perez, D. C., Wulfekuhle, G., Hernandez, J. J., Tran, G., Gordon, E.M., Gratton, C. (abstract). Investigating individual differences in aging networks: a precision fMRI dataset in older adults. Presented at Society for Neuroscience, November, 2023

Dworetsky, A., Seitzman, B. A., Adeyemo, B., Nielsen, A. N., Hatoum, A. S., Smith, D. M., Nichols, T. E., Neta, M., Petersen, S. E., Gratton, C. (abstract). Border shifts and ectopic intrusions: distinct forms of variation in human functional brain networks. Presented at Society for Neuroscience, November, 2023.

Herholz, P. Heinsfeld, A., Caron, B., Ray, K., Kent, J., Sala, A., Hermes, D., Eierud, C., Calhoun, V., Blair, R., Radhakrishnan, H., Covitz, S., Laird, A., Peraza, J.A., De La Vega, A., **Gratton, C.**, Pernet, C., Poldrack, R. A., Duff, E. P., Satterthwaite, T., Esteban, O., Rokem, A., Smith, R., Blair, R., Pestilli, F. (abstract). The BIDS connectivity project - developing a practical standard to report brain connectivity data. Presented at Society for Neuroscience, November, 2023.

Lee, H. J., Smith, D. M., Dworetsky, A., Kraus, B. T., Clifford, H. E., Dorn, M., Nee, D. E., Gratton, C. (abstract). Precise individual estimates of the congruency effect: Introducing the EPIC dataset. Presented at *Psychonomics, November, 2023*.

Tooley, U.A., Dworetsky, A., Nielsen, A.N., Latham, A., Kenley, J.K., Alexopoulos, D., Smyser, T., Warner, J.S., Shimony, J., Neil, J., Luby, J., Sylvester, C.M., Barch, D.M., **Gratton, C.**, Rogers, C.E., Smyser, C.D. (pre-registered report) Individual differences in functional networks in neonates and toddlers. Presented at *FIT'NG Conference, September 2023, Santa Rosa, CA*

Kwon, Y., Salvo, J.J., Lakshman, M., Holubecki, A., Kay, K., **Gratton, C.**, Braga, R.M. (abstract) Characterizing the parietal memory network within the individual using functional connectivity at 7T. Presented at the *Organization for Human Brain Mapping meeting, July 2023, Montreal, Canada*

Hafeman, D., Feldman, J., Mak, J., Merranko, J., **Gratton, C.**, Phillips, M., Birmaher, B., (abstract) Longitudinal Stability of reward network functional connectivity in bipolar-I/II disorder. International Society for Bipolar Disorders, 2023

Hafeman, D., Feldman, J., Mak, J., Merranko, J., **Gratton, C.**, Birmaher, B., Phillips, M. (abstract) Longitudinal Stability of resting-state target networks in youth with symptomatic bipolar-I/II disorder. World Youth Bipolar Day, 2023

Kwon, Y., Salvo, J., Lakshman, M., Holubecki, A., Kay, K., **Gratton, C.**, Braga, R.M. (abstract) Situating the parietal memory network in the context of multiple parallel

distributed networks within the individual using high-resolution 7T functional connectivity. Presented at the *Cognitive Neuroscience Society meeting, March 2023, San Francisco, CA*

2022

Perez, D. C., Tran, G., Hernandez, J. J., Gratton, C. (abstract) Precision scanning of brain networks in older adults: daily and longitudinal stability. Presented at the *Cognitive Neuroscience Society meeting, April 2022, San Francisco, CA*

Kong, R., Spreng, N., Nickerson, L., Fornito, A., Laird, A., Razi, A., Yendiki, A., **Gratton, C.**, Gordon, E., Larson-Prior, L., Cohen, J., Damoiseaux, J., Betzel, R., Eickhoff, S., Sadaghiani, S., Uddin, L., Yeo, B.T.T. (abstract) Correspondence across 16 group-level functional brain network atlases. Presented at the *Organization for Human Brain Mapping, June 2022, Glasgow, UK*

Ladwig, Z., Seitzman, B. A., Yu, Y., Smith, D. M., Dworetsky, A., Adeyemo, B., Petersen, S. E., Gratton, C. (abstract) BOLD co-fluctuation 'events' are predicted from static functional connectivity. Presented at the *Organization for Human Brain Mapping, June 2022, Glasgow, UK*

Perez, D.C., Dworetsky, A., Braga, R.M., Beeman, M, Gratton, C.(abstract). Asymmetries of functional network variants suggest hemispheric constraints on individual differences. Presented at the *Organization for Human Brain Mapping, June 2022, Glasgow, UK*

Porter, A., Dworetsky, A., Kraus, B.T., Laumann, T.O., Seitzman, B.A., Barch, D., Gratton, C. (abstract). A precision fMRI examination of individual differences in brain networks in schizophrenia. Presented at the *Organization for Human Brain Mapping, June 2022, Glasgow, UK*

Dworetsky, A., Porter, A., Fei, S., Seitzman, B.A., Adeyemo, B., Cohen, J., D'Esposito, M., Petersen, S.E., Gratton, C.(abstract). Individual differences in functional network organization are stable across many years. Presented at the *Organization for Human Brain Mapping, June 2022, Glasgow, UK*

2021

Ladwig, Z., Seitzman, B. A., Yu, Y., Smith, D. M., Dworetsky, A., Adeyemo, B., Petersen, S. E., Gratton, C. (abstract) High amplitude co-fluctuations: discrete events or continuous signals?. *Society for Neuroscience*, October 2021.

Smith, D. M., Dworetsky, A., Kraus, B. T., Gordon, E. M., Gratton, C. (abstract) Bridges or mirages? Connector hubs and inter-subject variation in connectivity profiles. *Society for Neuroscience*, October 2021.

Perez, D. C., Dworetsky, A., Gratton, C. (abstract). Properties of individual differences in functional connectivity across the hemispheres. *Society for Neuroscience*, October 2021.

Uddin, L.Q. Betzel, R. F., Cohen, J. R., Damoiseaux, J. S., De Brigard, F., Eickhoff, S. B., Fornito, A., **Gratton, C.**, Gordon, E. M., Laird, A. R., Larson-Prior, L., McIntosh, A. R., Nickerson, L. D., Pessoa, L., Pinho, A. L., Poldrack, R. A., Razi, A., Sadaghiani, S., Shine, J. M., Yendiki, A., Yeo, B. T. T., Spreng, R. T. (abstract) WHATNET: Workgroup for Harmonized Taxonomy of Networks. Presented at the Organization for Human Brain Mapping, June 2021

Hermosillo, R.J.M., Moore, L.A., Pines, A., Fezcko, E., Conan, G., Mooney, M.A., Randolph, A., Adeyemo, B., Earl, E., Perrone, A., Uriate-Lopez, J., Snider, K., Doyle, O., Cordova, M., Dworetsky, A., **Gratton, C.**, Petersen, S. E., Satterthwaite, T. D., Miranda-Dominguez, O., Fair, D. A. (abstract) Using probabilistic atlases of functional networks in adolescents to improve reliability of group brain-behavior associations. Presented at *FLUX 2021*

Yu, Y., Smith, D. M., **Gratton, C.** (abstract) From correlation to communication: decomposing functional connectivity changes. Presented at the *Organization for Human Brain Mapping, June 2021*

Dworetsky, A., Seitzman, B., Adeyemo, B., Petersen, S., **Gratton, C.** (abstract) Border shifts and ectopic intrusions: two distinct forms of functional network variants in the resting human brain. *Cognitive Neuroscience Society meeting, March 2021* [Virtual due to COVID-19]

Smith, D. M., Kraus, B. T., Gordon, E.M., **Gratton, C.** (abstract). Individual variation in connector hubs. *Cognitive Neuroscience Society meeting, March 2021* [Virtual due to COVID-19]

Perez, D. C., **Gratton, C.** (abstract) Precision scanning of brain networks in older adults. *Cognitive Neuroscience Society meeting, March 2021*

Porter, A., Nielsen, A. N., **Gratton, C.** (abstract) Task network effects are specialized to individuals: lessons from machine learning applied to precision fMRI. *Cognitive Neuroscience Society meeting, March 2021*

#selected for Data Blitz Presentation

2020 Nielsen, A., **Gratton, C.**, Rogers, C., Smyser, C., Wakschlag, L., Norton, E. (abstract). Investigating whether dissociable types of hubs integrate brain function in infants. *Presented at the Flux Congress for Developmental Cognitive Neuroscience, September, 2020*

Gordon, EM, Laumann, TO, Marek, S, **Gratton, C.**, Gilmore, AW, Newbold, DJ, Greene, DJ, Snyder, AZ, Schlaggar, BL, Dosenbach, NUF, Nelson, SM. (abstract) Default brain networks of individual humans exhibit fine-grained subnetwork structure. *Presented at the Organization for Human Brain Mapping, June, 2020*

2019 Kraus, B., Seitzman, BA, Dworetsky, A, Petersen, SE, **Gratton, C.** (abstract) Stability of individual variations in functional connectivity across states. *Presented at Society for Neuroscience, October 2019.*

Seitzman, BA, Lessov-Schlaggar, CN, Adeyemo, B, Dworetsky, A, Kraus, BT, Petersen, SE, **Gratton, C.** (abstract) Heritability of individual variant sub-types in functional brain networks. *Presented at Society for Neuroscience, October 2019.*

Dworetsky, A, Seitzman, BA, Adeyemo, B, Neta, M, Coalson, RS, Petersen, SE, **Gratton, C.** (abstract) Probabilistic mapping of human functional brain networks identifies regions of high inter-subject consensus. *Presented at Society for Neuroscience, October 2019.*

Marek, S, Greene, DJ, Siegel, JS, Gordon, EM, **Gratton, C.**, Newbold, DJ, Ortega, M, Laumann, TO, Miller, DB, Zheng, A, Lopez, KC, Berg, JJ, Coalson, RS, Nguyen, AL,

Dierker, D, Van, AN, Hoyt, CR, McDermott, KB, Norris, SA, Shimony, JS, Snyder, AZ, Nelson, SM, Barch, DM, Schlaggar, BL, Raichle, ME, Petersen, SE, Dosenbach, NUF. (abstract) Precision functional mapping of the individual human subcortex reveals integrative and network-specific functional zones. *Presented at the Organization for Human Brain Mapping, June 2019.*

Gordon, E.M., Laumann, T.O., Snyder, A.Z., **Gratton, C.**, Petersen, S.E., Dosenbach, N.U.F., Nelson, S.M. (abstract) Multiple separable factors influence the reliability of resting-state functional connectivity in individual humans. *Presented at the Organization for Human Brain Mapping, June 2019*

Gratton, C., Coalson, R., Dworetzky, A., Adeyemo, B., Barch, D., Tranel, D., Miranda-Dominguez, O., Fair, D., Dosenbach, N.U.F., Snyder, A.Z., Perlmutter, J.S., Petersen, S.E., Campbell, M.C. (abstract) High frequency contamination of motion estimates in single-band fMRI. *Presented at the Organization for Human Brain Mapping, June 2019*

2018

Gordon, EM, Lynch, CJ, **Gratton, C.**, Laumann, TO, Gilmore, AW, Greene, DJ, Ortega, M, Nguyen, AL, Schlaggar, BL, Petersen, SE, Dosenbach, NUF, Nelson, SM. Three distinct sets of connector hubs integrate human brain function. *Society for Neuroscience, October 2018.*

Kong, TS, **Gratton, C.**, Low, KA, Tan, CH, Chiarelli, AM, Fletcher, MA, Zimmerman, B, Maclin, E, Gratton, G, Fabiani, M. Giving a sign to functional connectivity: its relationship to age, arterial elasticity, and white matter integrity (abstract). *Society for Psychophysiological Research, September 2018.*

Nielsen, AN, Church, JA, **Gratton, C.**, Dosenbach, NUF, Petersen, SE, Black, KA, Schlaggar, BL, Greene, DJ. Functional connectivity indicates distinct developmental trajectories of motor function and inhibitory control in Tourette Syndrome. *Flux Congress, September 2018.*

2017

Gratton, C., Koller, JM, Shannon, W, Greene, DG, Petersen, SE, Perlmutter, JS, Campbell, MC. Functional connectivity deficits in Parkinson Disease (abstract). *Society for Neuroscience, November 2017*

Laumann TO, Gordon EM, Gilmore AW, Newbold DJ, Greene DJ, Berg JJ, Ortega M, Hoyt-Drazen C, **Gratton, C.**, Sun H, Hampton JM, Coalson RS, Nguyen A, McDermott KB, Shimony JS, Snyder AZ, Schlaggar BL, Petersen SE, Nelson SM, Dosenbach NUF. Precision functional mapping of individual human brains (abstract). *Society for Neuroscience, November 2017*

Seitzman, BA, **Gratton, C.**, Schlaggar BL, Petersen SE, Greene DJ. An expanded set of regions of interest for functional network analysis: improved representation of the subcortex and cerebellum (abstract). *Society for Neuroscience, November 2017*

Newbold DJ, Laumann TO, Ortega M, Hoyt-Drazen C, Coalson RS, Nguyen A, Hampton J, Nielsen A, Nelson SM, Gilmore AW, Berg JJ, Greene DJ, Gordon EM, **Gratton, C.**, Schlaggar BL, Petersen SE, Mitra A, Raut R, Snyder AZ, Dosenbach NUF (abstract). High-fidelity individual-subject resting state connectivity and task functional MRI demonstrate neuroplasticity induced by two weeks of upper extremity immobilization. *Presented at Organization for Human Brain Mapping, June 2017*

- 2016** Lurie, D., Tambini, A., **Gratton, C.**, Poline, J.B., D'Esposito, M. Effects of continuous theta-burst transcranial magnetic stimulation on hemodynamic lag (abstract). Presented at *Society for Neuroscience, November 2016*.
- Campbell, M.C., **Gratton, C.**, Koller, J.M., Shannon, W., Lessov-Schlaggar, C.A., Petersen, S.E., Perlmutter, J.S. Functional connectivity differences across Parkinson disease subtypes (abstract). Presented at *Society for Neuroscience, November 2016*.
- 2015** Silver, M.A., **Gratton, C.**, Yousef, S., Aarts, E., Wallace, D.L., D'Esposito, M. Cholinergic, but not dopaminergic or noradrenergic, enhancement sharpens behavioral spatial tuning (abstract). *Society for Neuroscience, October 2015*.
- Gratton, C.**, Laumann, TO, Gordon, EM, Adeyemo, B, Petersen SE. Properties that contribute to functional connectivity differences between task and rest (abstract). *Society for Neuroscience, October 2015*.
- Greene DJ, Church JA, Dosenbach NUF, Adeyemo B, **Gratton, C.**, Laumann TO, Nielsen A, Shannon W, Petersen SE, Black KJ, Schlaggar BL. Innovative methods increase sensitivity for detecting functional brain differences in Tourette syndrome (abstract). *Word Congress on Tourette Syndrome & Tic Disorders, 2015*.
- Gratton, C.**, Laumann, TO, Gordon, EM, Adeyemo, B, Petersen SE. Network properties associated with task-based changes in functional connectivity (abstract). *Presented at Cognitive Neuroscience Society, March 2015*.
- 2013** **Gratton, C.**, D'Esposito M. Focal lesions lead to functional plasticity in the roles of individual brain regions within large-scale networks (abstract). *Presented at Society for Neuroscience, November 2013*.
- Sreenivasan, KK, **Gratton, C.**, D'Esposito M. Mechanisms of attention in early visual cortex revealed with multivariate fMRI analysis (abstract). *Society for Neuroscience, November 2013*.
- Gallen, CL, **Gratton, C.**, Turner, GR, D'Esposito M. Changes in functional brain network organization after cognitive rehabilitation in older adults (abstract). *Society for Neuroscience, November 2013*.
- 2012** **Gratton, C.**, Lee, T., Nomura, EM., D'Esposito M. The effect of theta-burst TMS on cognitive control networks. *Society for Neuroscience (abstract). Presented at Society for Neuroscience, October 2012*
- Cohen, JR., **Gratton, C.**, D'Esposito M. Variability in brain modularity is related to variability in behavior. *Society for Neuroscience (abstract). Society for Neuroscience, October 2012*
- Gallen, C., **Gratton, C.** Nomura, EM., D'Esposito M. Changes in the modular organization of the brain in healthy aging. *Society for Neuroscience (abstract). Society for Neuroscience, October 2012*
- Begany, KL, Nomura, EM., **Gratton, C.**, Chen, AJW, D'Esposito M. Individual differences in response of brain injury patients to cognitive rehabilitation: evidence from analyses of functional brain networks. *Society for Neuroscience (abstract). Society for Neuroscience, October 2012*

Gratton, C., Sreenivasan, K.K., Silver, M., D'Esposito M. Effects of feature-based attention on voxel tuning curves for individual faces. Vision Science Society (abstract). *Presented at Vision Science Society Conference, May 2012*

Gallen, C., Nomura, EM., **Gratton, C.**, D'Esposito M. Changes in local and global brain organization in healthy aging. Cognitive Neuroscience Society (abstract). *Cognitive Neuroscience Society Meeting, March 2012*

Begany, KL, Nomura, EM., **Gratton, C.**, Chen, AJW, Novakovic-Agopian, T, D'Esposito M. Predicting the response of patients with brain injury to cognitive rehabilitation. Cognitive Neuroscience Society (abstract). *Cognitive Neuroscience Society Meeting, March 2012*

2011 **Gratton, C.**, Sreenivasan, K.K., Silver, M., D'Esposito M. Effects of feature-based attention on voxel tuning curves for individual faces. Society for Neuroscience (abstract). *Presented at Society for Neuroscience, November 2011*

Gratton, C., Nomura, EM, Perez, F., D'Esposito M. Changes in Modular Strength and Structure Following Focal Brain Lesions. Neuroimage (abstract). *Presented at Human Brain Mapping, June 2011*

Nomura EM, **Gratton, C.**, Perez, F., D'Esposito M. Changes in the Composition of Modules Following Focal Brain Lesions. Neuroimage (abstract). *Human Brain Mapping, June 2011*

Blumenfeld, R., Nomura EM, **Gratton, C.**, Bliss, D, D'Esposito M. Distinct dorsal and ventral lateral prefrontal networks evident in resting-state connectivity. Neuroimage (abstract). *Human Brain Mapping, June 2011*

Sreenivasan, K. K., **Gratton, C.**, Vytlačil, J., D'Esposito, M. Contributions of basal ganglia, prefrontal cortex, and extrastriate cortex to visual working memory maintenance. Cognitive Neuroscience Society (abstract). *Cognitive Neuroscience Society Meeting, April, 2011*

2010 Nomura EM, **Gratton, C.**, Lee T, Yousef S, D'Esposito M. Top-down modulation of category selective visual association cortex using theta-burst TMS. Society for Neuroscience (abstract). *Society for Neuroscience Meeting, November 2010*

Sreenivasan, K. K., **Gratton, C.**, D'Esposito, M. Contributions of prefrontal and extrastriate cortex to visual working memory maintenance. Society for Neuroscience (abstract). *Society for Neuroscience Meeting, November, 2010*

Moberget, T., Nomura, E. M., **Gratton, C.**, Endestad, T., Lundar, T., Due-Tønnesen, B., Andersson, S. Heldal, A., D'Esposito M. Focal cerebellar lesions affect the functional connectivity of cerebral resting-state networks. Society for Neuroscience (abstract). *Society for Neuroscience Meeting, November 2010.*

Gratton, C., Nomura, E.M., Perez, F., D'Esposito, M. (2010). Lesions to dlPFC and OFC have dissociable effects on distal cortical network properties. *Neuroimage* (abstract). *Presented at the Organization of Human Brain Mapping Meeting, June 2010.*

Nomura, EM, **Gratton, C.**, Perez, F., D'Esposito, M. (2010) Dissociable Effects of Focal Brain Lesions on Cognitive Control Networks. *Neuroimage* (abstract). *Presented at the*

Organization of Human Brain Mapping Meeting, June 2010.

- 2009** Nomura, E.M., Visser, R.M., **Gratton, C.**, D'Esposito, M. (2009). Altered resting state functional connectivity following focal brain lesions: support for the dual networks hypothesis of top-down control. *Society for Neuroscience* (abstract). *Presented at the Society for Neuroscience Meeting, October 2009.*
- Turner, G.R., Nomura, E.M., Turken, A.U., Visser, R.M., **Gratton, C.**, D'Esposito, M. (2009). Structural alterations in resting state networks following focal brain lesions. *Society for Neuroscience* (abstract). *Society for Neuroscience Meeting, October 2009.*
- Nomura, E.M., **Gratton, C.**, D'Esposito, M. (2009). Effect of r-TMS on coherence of resting State networks. *NeuroImage* (abstract). *Presented at the Organization for Human Brain Mapping Meeting, June 2009*
- 2008** **Gratton, C.**, Laszlo, S., Federmeier, K. D. (2008). In whole or in part? An ERP analysis of global/local processing asymmetries with naturalistic objects. *Psychophysiology*, 45, S70 (abstract). *Presented at the Society for Psychophysiological Research Meeting, October 2008*
- 2007** **Gratton, C.**, Evans, K. M., Federmeier, K. D. (2007). Generalizing Knowledge: ERPs reveal the time-course of retrieval of novel categories. *Psychophysiology*, 44, S61 (abstract). *Presented at the Society for Psychophysiological Research Meeting, October 2007*
- 2006** **Gratton, C.**, Evans, K. M., Federmeier, K. D. (2006). ERPs reveal the acquisition and retrieval of information about novel objects. *Psychophysiology*, 43, S43 (abstract). *Presented at the Society for Psychophysiological Research Meeting, October 2006*

TEACHING AND MENTORING

Instructor

2023	PSB 2000: Introduction to Brain and Behavior	FSU
2022	Psych 221: Introduction to Neuroscience	NU
2021	Psych 221: Introduction to Neuroscience	NU
	Psych 470: Topics in BBC: fMRI methods and analysis	NU
2020	Psych 221: Introduction to Neuroscience	NU
2019	Psych 470: Topics in BBC: fMRI methods and analysis	NU
	Psych 221: Introduction to Neuroscience	NU
	Psych 470: Topics in BBC: Neural basis of control	NU

Graduate Instructor

2011	Psych 117: Human Neuropsychology (w/ Prof. Bob Knight)	UC Berkeley
2010	MCB 61: Brain, Mind, and Behavior (w/ Prof. David Presti)	UC Berkeley

Guest Lectures

2024	Neuroscience Methods	FSU
	Psychology Research Seminar	FSU
2023	Neuroscience Methods	FSU
	Psychology Research Seminar	FSU
	PSB5057: Molecules to Behavior	FSU

2022	Neuroscience Methods	FSU
2021	Cog Psych 366: Cog Psy proseminar	NU
2020	Psych 401: BBC graduate proseminar	NU
2019	Psych 401: BBC graduate proseminar	NU
	Cog Psych 366: Cog Psy proseminar	NU
2018	Psych 401: BBC graduate proseminar	NU
	Psych 3604: Cognitive Neuroscience	WUSTL
	ACCSN: Cognitive, Computational, & Systems Neuro	WUSTL
2017	MBB120A: Intro to Mind, Brain, & Behavior	WUSTL
2015	Psych 3604: Cognitive Neuroscience	WUSTL
2014	Psych 3604: Cognitive Neuroscience	WUSTL
2012	Psych 214: fMRI Methods	UC Berkeley
2011	Psych 117: Human Neuropsychology	UC Berkeley
	Psych 214: fMRI Methods	UC Berkeley

Summer Workshop - Invited Instructor

2023	Neurohackademy @ Univ of Washington
2022	Neurohackademy @ Univ of Washington
2021	Neurohackademy @ Univ of Washington
	fMRI summer Series @ Northwestern
2019	Neurohackademy @ Univ of Washington
2017	MIND Summer School @ Dartmouth College
	Core Outreach Workshop @ University of Nebraska - Lincoln

Mentoring

Graduate Students

2023 - present	Jake Chernicky	FSU (Neuroscience)
2023 - present	Ashley Wade	FSU (Neuroscience)
2020 - present	Zach Ladwig	NU (NUIN)
2019 - present	Diana Perez	NU (Psychology)
2019 - 2024	Alexis Porter	NU (Psychology) -> <i>Data scientist at Turing Medical</i>
2018 - 2024	Brian Kraus	NU (Psychology) -> <i>T32 Postdoc at WUSTL</i>

Postdoctoral Researchers

2024 [tb]	Ana Triana Hoyos	FSU
2024 - present	Mackenzie Mitchell	FSU
2022 - present	Hyejin Lee	FSU
2019 - 2021	Derek Smith	NU -> <i>Res Associate, Johns Hopkins</i>

Research Assistants

2024 - present	Kian Zendeherouh Kermani	FSU & UIUC
2022 - 2024	Gretchen Wulfekuhle	NU & FSU -> <i>Psych PhD program, UNC</i>
2022 - 2024	Nathan Labora	NU & FSU -> <i>Neuro PhD program, UMN</i>
2021 - 2022	Joanna Hernandez	NU -> <i>Psych PhD program, Harvard</i>
2019 - 2024	Ally Dworetsky	WUSTL, NU, & FSU -> <i>Neuro program, WUSTL</i>
2018 - 2022	Megan Dorn	NU -> <i>Research Data Analyst, NU</i>

Undergraduate Researchers

2024	Megan Hallman	FSU (Psychology)
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2024	Alexandra Moncada	FSU (Psychology)
2024	Sebastian Prexl	FSU (Psychology)
2023	Ava Kazerani	FSU (Neuro)
2023 - 2024	Gabby Pineiro	FSU (Neuro)
2023 - 2024	Sarah Drake	FSU (Psych)
2022 - 2024	Ramses Acosta	FSU (Neuro)
2022 - 2024	Isabella Ramirez	FSU (Psych)
2022 - 2024	Makenna Jenkins	FSU (Neuro)
2021 - 2022	Chloe McGhee	NU (Neuro)
2021 - present	Elena Housteau	NU (Neuro, *Honors, Routtenberg Prize)
2022	Lauren Risenhoover	NU (Neuro)
2022	Samantha Chen	WUSTL summer student
2021 - 2022	Ariana Fei	NU (Neuro, Statistics)
2021	Maddie Banich	NU (Neuro)
2021	Camila Grisanti	NU (Neuro)
2020	Lisa Calegari	NU (Neuro)
2019	Meredith Hiller	NU (Neuro)
2019 - 2021	Jennifer Pius-Alonee	NU (Neuro)
2019 - 2020	Brittany Henry	NU (Neuro)
2019	Shawn Ohazuruike	NU (Dartmouth SROP fellow)
2019 - 2022	Gabriella Tran	NU (Neuro, *Honors, Routtenberg Prize)
2019 - 2020	Yulan Chen	NU (Neuro)
2019	Imani Bah	NU (Neuro)
2019 - 2020	Heili Duffin	NU (Neuro)
2018	Ally Dworetzky	WUSTL
2016 - 2017	Sanjana Ramesh	WUSTL
2012	Jahlela Hasle	UC Berkeley
2012	Mehrnaz Ahrar	UC Berkeley
2012	Jeff Defond	UC Berkeley
2010 - 2011	Antony LaBarbera	UC Berkeley
2010 - 2012	Sahar Yousef	UC Berkeley

PhD Thesis Committees

2024 - present	Bram Diamond	Northwestern (Clin Psych); Member
2024 - present	Sophie Abber	FSU (Psychology - Clinical); Member
2022-2023	Daniel Bowie	UIUC; external member
2023-2024	McKinney Pitts	FSU (Psychology - Cognitive); Member
2023-2024	Alexa Meyer	FSU (Psychology - Cognitive); Member
2023-present	Zach Ladwig	Northwestern (NUIN); Chair
2023-present	Diana Perez	Northwestern (Psychology); Chair
2022-present	Joey Salvo	Northwestern (NUIN); Member
2022-2024	Brian Kraus	Northwestern (Psychology); Chair
2022-2024	Alexis Porter	Northwestern (Psychology); Chair
2022	Gwen van der Wijk	Univ of Calgary; external member
2019-2020	Ben Reuveni	Northwestern (Psychology); member

Qualifying Exam Committees

2022	Yuhua Yu	Northwestern (Psychology); Member
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2022	Diana Perez	Northwestern (Psychology); Chair
2022	Alexis Porter	Northwestern (Psychology); Chair
2022	Brian Kraus	Northwestern (Psychology); Chair
2021	Joseph Salvo	Northwestern (NUIN); Member
2021	Zach Ladwig	Northwestern (NUIN); Chair

Masters Prospectus/Thesis Committees

2023	Jessica Wood	FSU (Psychology - Cognitive); Member
2022	Rachelle Johnson	FSU (Psychology - Developmental); Member
2021	Diana Perez	Northwestern (Psychology); Chair
2021	Alexis Porter	Northwestern (Psychology); Chair
2020	Brian Kraus	Northwestern (Psychology); Chair

Undergraduate Honors Thesis Committees/Advisor

2024	Elena Housteau	Northwestern (Neuroscience); Primary Advisor
2023-2024	Natalie Bardin	FSU (Psychology); Committee member
2023-2024	Isha Majid	FSU (Psychology); Committee member
2022	Gabriella Tran	Northwestern (Neuroscience); Primary Advisor

EDITORIAL SERVICE & REVIEW**Editorial Service**

2018 - present	Associate Editor , <i>Network Neuroscience</i>
2023 - present	Editorial Board , <i>Imaging Neuroscience</i> (successor to Neuroimage)
2021 - present	Editorial Board , <i>Aperture</i> (open access, OHBM)
2020 - 2021	Issue Editor , <i>Current Opinion in Behavioral Sciences</i> , [Deep Imaging]

Ad-hoc Reviews

Nature, PNAS, Neuron, Nature Neuroscience, Nature Communications, Nature Protocols, Nature Human Behavior, Cell Reports, Science Advances, ELife, Cerebral Cortex, Journal of Neuroscience, Neuroimage, Imaging Neuroscience, Neurobiology of Aging, Journal of Cognitive Neuroscience, Psychophysiology, Developmental Science, Network Neuroscience, Human Brain Mapping, PLOS Biology, PLOS ONE, Brain and Cognition, Frontiers in Perception Science, Frontiers in Human Neuroscience, Child Development, Neuroscience, Schizophrenia Bulletin, Schizophrenia Research

PROFESSIONAL AND PUBLIC SERVICE**Professional affiliations**

Human Brain Mapping, Society for Neuroscience, Cognitive Neuroscience Society, Vision Science Society, Society for Psychophysiological Research, Association for Psychological Science

Departmental Service

2023 - 2024	FSU Neuroscience Colloquium Committee
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2023 - 2024	FSU Psychology Faculty Development Committee
2023	FSU Graduate Research Day, Poster Judge
2023	FSU Cognitive Area - Charness Award Rating
2022 - 2024	FSU Psychology Awards Committee
2022 - 2023	FSU Psychology Department Search Committee
2022 - 2024	FSU Psychology Department, Elections Committee
2021 - 2022	Northwestern Neuroscience (NUIN) Curriculum Committee
2020 - 2022	CBMG Weekly Seminar Series, Speaker Organizing Committee
2021 - 2022	Northwestern Psychology Department, Kitchen Cabinet
2019 - 2021	Northwestern Psychology Department, Personnel Committee

Non-departmental University Service

2021	Northwestern pilot grant, ad-hoc review
2020 - present	Northwestern Neuro Center for Translational Imaging Advisory Committee
2020 - 2022	Northwestern Cognitive Neuroscience Preceptor Committee
2019	Northwestern DevSci - Professional Development Panel

Grant/Fellowship Review

2024	NIMH K99/R00 review
2023	NIMH K99/R00 review
2023	Israeli Science Foundation, external review
2022	NSF CAREER ad-hoc review
2022	NIMH K99/R00 review
2022	Israeli Science Foundation, external review
2021	Marsden Fund Council, external reviewer
2021	NSF grant review panel
2020	NSF Graduate Research Fellowship Program fellowship review
2020	Cambridge Churchill College Early Career Research Fellowship reviewer
2019	NSERC Discovery Grant, External reviewer
2018	NSF grant review panel
2018	National Defense Science and Engineering Graduate fellowship review
2017	National Defense Science and Engineering Graduate fellowship review
2016	National Defense Science and Engineering Graduate fellowship review

External and Professional Service

2023 - present	Organization for Human Brain Mapping: Educational Committee
2022 - 2024	Organizing Committee, Whistler Workshop on Brain Function
2020 - 2024	OHBM Best Practices in Large Scale Brain Network Nomenclature Committee
2020	Univ of Michigan NICHD Training Grant - Methods panel discussion

Public Outreach

2023	Educational PD support group meeting - Presentation
2023	Rotary Club - Presentation
2023	Osher Lifelong Learning Institute - Presentation
2022 - 2023	Chicago Science Fest (funding, public speaker recruitment)
2022	OHBM Neurosalience podcast - guest panel member
2022	FLUX Sensitive Periods podcast - guest
2020	Mesulam Center Alzheimer's Disease Day - Research short presentation
2019 - 2022	Northwestern Psychology Sneak Peak (faculty panel, application review) (3x)

2015 - 2016	WUSTL Middle School Summer Challenge - Laboratory presentation (4x)
2009 - 2013	Mind & Brain Night, Booth presenter at local schools (4x)
2009	Oakland Girls Go Teach, Neuroscience booth (1x)
2004 - 2008	UIUC Engineering & Beckman Open House, booth/lab presenter (2x)