

CURRICULUM VITAE

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<https://connectlab.beckman.illinois.edu>



Beckman Institute for Advanced Science & Technology
University of Illinois, Urbana-Champaign
405 North Mathew Ave
Urbana, IL-61801

POSITIONS

Associate Professor, **University of Illinois, Urbana-Champaign** 2022 – present
Psychology Department, Cognitive Neuroscience Program Area
Bioengineering Department (by courtesy)

Director of the CONNECTlab

Full-time faculty of the Beckman Institute for Advanced Science & Technology

Affiliate faculty of the Carle R. Woese Institute for Genomic Biology

Faculty of the Neuroscience Program

Co-leader of the Brain Connectivity and Networks working group at the Beckman Institute

Assistant Professor of Psychology, **University of Illinois, Urbana-Champaign** 2016 – 2022

Postdoctoral Researcher, **Stanford University** 2015

Genetic polymorphisms influencing large-scale brain network dynamics

Postdoctoral Researcher, **University of California, Berkeley** 2010 – 2014

Network dynamics and neurophysiological mechanisms of cognitive control

EDUCATION

PhD, 2010 **Max-Planck International Research School, Germany & NeuroSpin, France**

Neural and Behavioral Sciences, Mentor: Dr. Andreas Kleinschmidt

“The impact of ongoing brain activity on the variability of human brain function and behavior”

MSc, 2006 **Max-Planck International Research School, Tübingen, Germany**

Neural and Behavioral Sciences, Mentor: Dr. Uta Noppeney

BSc, 2004 **Univ. of Osnabrück, Germany & Univ. of California San Diego**

Cognitive Science, Mentor: Dr. Martin Sereno

AWARDS AND HONORS

2023	National Science Foundation CAREER award
2022	Named scholar position: Helen Corley Petit Scholar, University of Illinois
2022	Campus Distinguished Promotion Award, University of Illinois
2022	College of LAS Dean’s Award for Excellence in Undergraduate Teaching, Illinois
2022	Mabel Kirkpatrick Hohenboken Award for distinguished contributions to teaching
2020-2021	Lincoln Excellence for Assistant Professors (LEAP) Award, University of Illinois
2019	Neuroscience Program award for outstanding faculty, University of Illinois
2016/’18/’19/’20/’22	Teachers Ranked as Excellent by Their Students, University of Illinois
2010	<i>Summa cum laude</i> for Ph.D.

GRANTS AND FELLOWSHIPS

2023 – 2028	NSF CAREER Award (2237385) “Efficient brain connectome dynamics enabling transitions across cognitive domains”	Role: PI	\$900,000
2019 – 2024	NIH/NIMH R01 grant (R01MH116226) “Cognitive Significance of Functional Connectome States”	Role: PI	\$2,309,483
2022 – 2029	NSF Expeditions (PI: Gazzola) “ <u>Mind in Vitro – Computing with Living Neurons</u> ”	Sadaghiani sub-budget: (total budget: \$15,000,000)	\$561,205
2022– 2024	Campus Research Board (RB22097) “Recording neural oscillatory magnetic field waveforms using MRI”	Role: PI	\$24,000
2018 – 2022	NIH/NINDS R21 grant (R21NS104603) “Brain structure and function in adult ZIKV patients with neurological manifestations”	Role: PI	\$428,848
2019 – 2023	NIN/NIMH R21 grant (R21HD097537 PI: Rudolph) “Effect of emotion mindset on emotion processing”	Role: Co-I	\$417,759
2019 – 2020	Strategic Research Initiative, University of Illinois “Mapping the Human Chronnectome”	Role: Co-PI	\$70,000
2016 – 2018	Carle-Illinois seed grant “Understanding cognitive outcomes of strokes using rhythms of the brain”	Role: PI	\$50,000
2017	Beckman Institute’s Intelligent Systems seed fund “Unveiling mechanisms of cognitive inflexibility in major depression; the role of infraslow electrophysiological brain activity”		
2016	Faculty Research Travel Grant, Illinois Center for Latin American & Caribbean Studies		
2011 – 2013	German Research Foundation (DFG) postdoctoral research fellowship		
2011	German Academic Exchange Service postdoctoral fellowship (fellowship declined)		
2007 – 2010	Doctorate fellowship of Friedrich-Ebert Foundation, Germany		
2005 & 2009	Travel Award of the Organization for Human Brain Mapping		
2004 – 2006	Master Studies Fellowship of Friedrich-Ebert Foundation, Germany		
2003 – 2004	Undergraduate Fellowship of Friedrich-Ebert Foundation, Germany		

PROFESSIONAL SERVICE

Associate Editor, *Imaging Neuroscience* (formerly *NeuroImage*), 2021 – present

Associate Editor, *Network Neuroscience*, 2023 – present

Symposium Committee, Cognitive Neuroscience Society, for 2021–2025 annual meetings

Program Committee, Organization for Human Brain Mapping, for 2019–2021 annual meetings

Sustainability and Environment Action Special Interest Group, Org. Human Brain Mapping,
Chair of annual meeting working group, 2021 – 2022; Active member, 2023 – present

Committee on Large-Scale Network Nomenclature, Org. for Human Brain Mapping, 2020 – present

PUBLICATIONS

Google Scholar profile https://scholar.google.com/citations?user=XD7B_0EAAAAJ&hl=en

Mostame P, Wirsich J, Alderson TH, Ridley B, Giraud A-L, Carmichael D, Vulliemoz S, Guye M, Lemieux L, **Sadaghiani S** (2024) A multiplex of dynamic connectome trajectories enables several connectivity patterns in parallel: A human simultaneous intracranial EEG and fMRI study.

eLife. <https://elifesciences.org/reviewed-preprints/98777>

Jun S, Malone SM, Alderson TH, Iacono WG, Harper J, Wilson S, **Sadaghiani S** (2024) Rapid dynamics of electrophysiological connectome states are heritable.

Network Neuroscience. https://doi.org/10.1162/netn_a_00391

Jun S, Malone SM, Alderson TH, Iacono WG, Harper J, Wilson S, **Sadaghiani S** (2024) Cognitive abilities are associated with rapid dynamics of electrophysiological connectome states.

Network Neuroscience. https://doi.org/10.1162/netn_a_00390

Egan MK, Costines C, D'Esposito M, **Sadaghiani S** (2024) Endogenous preparatory control is associated with increased interaction between default mode and dorsal attention networks.

Imaging Neuroscience. https://doi.org/10.1162/imag_a_00124

Sadaghiani S, Alderson TH (2023) Tangling with the entangled brain: Putting the global back into the local. **Journal of Cognitive Neuroscience**. 35(3): 365-367

An invited commentary on Pessoa L, "The Entangled Brain"

<https://direct.mit.edu/jocn/article-abstract/35/3/365/114113>

Weber M, Cunningham E, Beck D, **Sadaghiani S**, Wang RF (2023) Effects of Task Type on Spontaneous Alternations of Attentional States. **Memory and Cognition**. In press

Uddin L, Betzel R, Cohen JR, Damoiseaux JS, De Brigard F, Eickhoff SB, Fornito A, Gratton C, Gordon EM, Laird AR, Larson-Prior L, McIntosh AR, Nickerson LD, Pessoa L, Pinho AL, Poldrack RA, Razi A, **Sadaghiani S**, Shine JM, Yendiki A, Yeo BTT, Spreng RN. (2023) Controversies and progress in standardization of large-scale brain network nomenclature. **Network Neuroscience**.

<https://direct.mit.edu/netn/article/7/3/864/116105/>

Epp S, Jung H, Borghesani V, Klöwer M, Hoeppli ME, Misiura M, Thompson E, Duncan NW, Urai A, Veldsman M, **Sadaghiani S**, Rae C. (2023) How can we reduce the climate costs of OHBM? A vision for a more sustainable meeting. **Aperture** 3: <https://doi.org/10.52294/001c.87678>

Jun S, Alderson TH, Altmann A, **Sadaghiani S**. (2022)

Dynamic trajectories of connectome state transitions are heritable. **NeuroImage**. 256: 119274.

<https://www.sciencedirect.com/science/article/pii/S1053811922003950?via%3Dihub>

Sadaghiani S, Brookes M, Baillet S. (2022) Connectomics of human electrophysiology.

Invited contribution to special issue on Mapping the Connectome. **NeuroImage**. 247: 118788.

<https://doi.org/10.1016/j.neuroimage.2021.118788>

Mostame P, **Sadaghiani S** (2021) Oscillation-based connectivity architecture is dominated by an intrinsic spatial organization, not cognitive state or frequency. **Journal of Neuroscience**. 41(1): 179-92.

<https://doi.org/10.1523/JNEUROSCI.2155-20.2020>

Egan MK, Larsen R, Wirsich J, Sutton B, **Sadaghiani S**. (2021) Safety and data quality of EEG recorded simultaneously with multi-band fMRI. **PlosONE**. 16(7): e0238485

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0238485>

- Wirsih J, Jorge J, Iannotti GR, Shamshiri EA, Grouiller F, Abreu R, Lazeyras F, Giraud AL, Gruetter R, **Sadaghiani S**, Vulliémoz S (2021) EEG and fMRI connectomes are reliably related: a simultaneous EEG-fMRI study from 1.5T to 7T. *NeuroImage*. 231: 117864
<https://doi.org/10.1016/j.neuroimage.2021.117864>
- Mostame P, **Sadaghiani S** (2020) Phase coupling and amplitude coupling are tied by an intrinsic spatial organization but show divergent stimulus-related changes. *NeuroImage*. 219: 117051.
<https://doi.org/10.1016/j.neuroimage.2020.117051>
- Wirsih J, Giraud A-L, **Sadaghiani S** (2020) Concurrent EEG- and fMRI-derived connectomes exhibit linked dynamics. *NeuroImage*. 219: 116998.
<https://doi.org/10.1016/j.neuroimage.2020.116998>
- Wirsih J, Amico E, Giraud A-L, Goni J, **Sadaghiani S** (2020) Multi-timescale functional connectome traits: A bimodal decomposition of concurrent EEG-fMRI. *Network Neuroscience*. 4(3): 658-677.
https://doi.org/10.1162/netn_a_00135
- Sadaghiani S**, Wirsih J. (2020) Connectome organization across temporal scales: New insights from multimodal approaches. *Network Neuroscience*. 4(1): 1-29. https://doi.org/10.1162/netn_a_00114
- Sadaghiani S**, Dombert PL, Lovstad M, Funderud I, Melig T, Endestad T, Knight RT, Solbakk A-K, D'Esposito M. (2019) Lesions to the Fronto-Parietal Adaptive Control Network Impact Alpha-Band Phase Synchrony and Cognitive Control. *Cerebral Cortex*. 29(10): 4142-4153.
<https://doi.org/10.1093/cercor/bhy296>
- Bido-Medina R, Wirsih J, Severino Rodriguez M, Oviedo J, Miches I, Bido P, Tusen L, Stoeter P, **Sadaghiani S**. (2018) Impact of Zika Virus on adult human brain structure and functional organization. *Annals of Clinical and Translational Neurology*, 5(6): 752-762. <https://doi.org/10.1002/acn3.575>
- Aaron Kucyi, Arielle Tambini, **Sadaghiani S**, Shella Keilholz, Jessica R. Cohen (2018) Spontaneous cognitive processes and the behavioral validation of time-varying brain connectivity. *Network Neuroscience*, 2(4): 397-417. https://doi.org/10.1162/netn_a_00037
- Sadaghiani S**, Ng B, Altmann A, Poline J-B, [IMAGEN consortium contributors], Napolioni V, Greicius M (2017). Overdominant effect of a *CHRNA4* polymorphism on cingulo-opercular network activity and cognitive control. *Journal of Neuroscience*, 37(40): 9657-66.
<https://doi.org/10.1523/JNEUROSCI.0991-17.2017>
- Sadaghiani S**, and Kleinschmidt A (2016). "Brain Networks and α -Oscillations: Structural and Functional Foundations of Cognitive Control." *Trends in Cognitive Sciences*, 20(11):805-817.
<https://doi.org/10.1016/j.tics.2016.09.004>
- Sadaghiani S**, Poline JB, Kleinschmidt A, D'Esposito M (2015). Ongoing dynamics in large-scale functional connectivity predict perception. *Proceedings of the National Academy of Sciences*, 112 (27), 8463-8468. <https://doi.org/10.1073/pnas.1420687112>
- Sadaghiani S**, D'Esposito M (2015). Functional characterization of the cingulo-opercular network in the maintenance of tonic alertness. *Cerebral Cortex*, 25(9): 2763-73. <https://doi.org/10.1093/cercor/bhu072>
- Sadaghiani S**, Kleinschmidt A (2013). Functional interactions between intrinsic brain activity and behavior. *NeuroImage*, 80:379-86. <https://doi.org/10.1016/j.neuroimage.2013.04.100>
- Fabienne P, **Sadaghiani S**, Leroy C, Courvoisier DS, Maroy R, Bottlaender M (2013). High density of nicotinic receptors in the cingulo-insular network. *NeuroImage*, 79:42-51.
<https://doi.org/10.1016/j.neuroimage.2013.04.074>

Sadaghiani S, Scheeringa R, Lehongre K, Morillon B, Giraud AL, D'Esposito M, Kleinschmidt A (2012). Alpha-band phase synchrony is related to activity in the fronto-parietal adaptive control network. *Journal of Neuroscience*, 32(41): 14305-14310. <https://doi.org/10.1523/JNEUROSCI.1358-12.2012>

Ciuciu P, Varoquaux G, Abry P, **Sadaghiani S**, Kleinschmidt A (2012). Scale-Free and Multifractal Time Dynamics of fMRI Signals during Rest and Task. *Frontiers in Physiology* 3:186. <https://doi.org/10.3389/fphys.2012.00186>

Coste C, **Sadaghiani S**, Friston K, Kleinschmidt A (2011). Ongoing Brain Activity Fluctuations Directly Account for Inter-Trial and Indirectly for Inter-Subject Variability in Stroop Task Performance. *Cerebral Cortex*, 21(11): 2612-9. <https://doi.org/10.1093/cercor/bhr050>

Sadaghiani S, Scheeringa R, Lehongre K, Morillon B, Giraud AL, Kleinschmidt A (2010). Intrinsic Connectivity Networks, Alpha Oscillations and Tonic Alertness: A simultaneous EEG/fMRI Study. *Journal of Neuroscience*, 30(30): 10243-50. <https://doi.org/10.1523/JNEUROSCI.1004-10.2010>

Sadaghiani S, Hesselmann G, Friston KJ, Kleinschmidt A (2010). The relation of ongoing brain activity, evoked neural responses, and cognition. *Frontiers in Systems Neuroscience*, 4(20). <https://doi.org/10.3389/fnsys.2010.00020>

Sadaghiani S*, Hesselmann G*, Friston KJ, Kleinschmidt A (2010). Predictive coding or evidence accumulation? False inference and neuronal fluctuations. *PLoS One* 5(3):e9926. <https://doi.org/10.1371/journal.pone.0009926> *The first two authors contributed equally.

Varoquaux G, **Sadaghiani S**, Pinel P, Kleinschmidt A, Poline JB, Thirion B (2010). A group model for stable multi-subject ICA on fMRI datasets. *NeuroImage*, 51(1): 288-99. <https://doi.org/10.1016/j.neuroimage.2010.02.010>

Sadaghiani S, Hesselmann G, Kleinschmidt A (2009). Distributed and antagonistic contributions of ongoing activity fluctuations to auditory stimulus detection. *Journal of Neuroscience*, 29(42): 13410-7. <https://doi.org/10.1523/JNEUROSCI.2592-09.2009>

Sadaghiani S, Maier JX, Noppeney U (2009). Natural, metaphoric and linguistic auditory direction signals have distinct influences on visual motion processing. *Journal of Neuroscience* 29(20): 6490-9. <https://doi.org/10.1523/JNEUROSCI.5437-08.2009>

Sadaghiani S, Ugurbil K, Uludag K (2009). Neural activity-induced modulation of BOLD post-stimulus undershoot independent of the positive response. *Magnetic Resonance Imaging*, 27(8): 1030-8. <https://doi.org/10.1016/j.mri.2009.04.003>

BOOK CHAPTERS:

Sadaghiani S. Functional Connectome Dynamics and Brain Plasticity. Book chapter for *Barbey A (Eds.) The Oxford Handbook of Cognitive Enhancement and Brain Plasticity*. Oxford University Press. *In press*

Riddle J, **Sadaghiani S**. Neural Oscillations and Working Memory. Book chapter for *D'Esposito M (Eds.) The Neural Architecture of Human Working Memory*. Oxford University Press. *In press*

Kucyi A, **Sadaghiani S** (2022) How can I analyze large-scale intrinsic functional networks with iEEG? Chapter to be published in: *Axmacher N & Parvizi J (Eds.) Intracranial EEG for Cognitive Neuroscience*. Springer. Preprint: <https://psyarxiv.com/tmvwf>

Damoiseaux JS, Altmann A, Richiardi J, **Sadaghiani S**. (2021) Applications of MRI Connectomics. Chapter to be published in: *Jezzard P & Choi IY (Eds.) Advanced Neuro Magnetic Resonance Techniques and Applications*. Elsevier Academic Press. Preprint: <https://psyarxiv.com/u4y8s>

UNDER REVIEW:

Jun S, Altmann A, **Sadaghiani S**. Modulatory neurotransmitter genotypes shape dynamic functional connectome reconfigurations and cognition. *Under review*.

Alderson TH, Jun S, Wirsich J, Egan M, Harper J, Mostame P, Giraud A-L, Malone SM, Lacono WG, Koyejo S, **Sadaghiani S**. Shared spatial and temporal principles govern connectome dynamics across timescales. *Under review*.

IN PREPARATION:

Mostame P, Hesselmann G, Bido-Medina R, Kleinschmidt A, **Sadaghiani S**. The Impact of intrinsic connectome dynamics on perception is context-dependent.

Irani M*, Li Y*, Bido-Medina R, Egan M, Perriello C, Yang R, Pritschet L, Winter-Nelson E, Heller W, Alderson TH, **Sadaghiani S**. Long-range temporal structure and scale-free characteristics of emotion- and object perception. *shared first-authorship.

Alderson TH, Wirsich J, Mostame P, Lehongre K, Morillon B, Giraud AL, Koyejo S, **Sadaghiani S**. Connectome dynamics constitute temporally scale-free transitions across network coactivation patterns.

Jun S, Bido-Medina R, Oviedo J, Miches I, Tusen L, Stoeter P, Severino Rodriguez M, **Sadaghiani S**. Long-term impact of Zika virus on adult human brain structure.

Xavier M, Esteves I, Jorge J, Abreu R, Giraud A-L, **Sadaghiani S**, Wirsich J, Figueiredo P. Consistency of resting-state correlations between fMRI networks and EEG band-power.

SCIENCE COMMUNICATION:

Sadaghiani S (2014). The brain never stops. *Front. Young Minds*, 2:6. [doi:10.3389/frym.2014.00006](https://doi.org/10.3389/frym.2014.00006)

PRESENTATIONS

Invited Talks:

- 2024 National Academies of Science, Engineering and Medicine, Meeting of the Board on Life Sciences, virtual
“Neurocognitive networks across timescales”
- 2024 “The Connectome Multiplex”, University of British Columbia, Vancouver, Canada
- 2024 Workshop on Brain Functional Organization, Connectivity, and Behavior, Noosa, Australia
“Functional connectome dynamics - fast, slow, or both?”
- 2024 Panel speaker, Neurosalience podcast live event, Organization for Human Brain Mapping annual meeting, Seoul, South Korea
- 2024 Women in Science Lecture Series, University of Illinois, Urbana, IL
- 2023 8th Big Data Neuroscience Meeting of the Advanced Computational Neuroscience Network, Columbus, OH, “Functional connectome dynamics; slow, fast, or both?”
- 2023 Human Systems Neuroimaging and Neuroengineering, U Alabama, Birmingham, AL
“The many lives of the dynamic connectome”
- 2023 The Washington University Mallinckrodt Institute of Radiology in St. Louis, MO
“The multi-timescale connectome”

- 2022 Frontiers in Miniature Brain Machinery, University of Illinois, Urbana, IL
“The functional connectome across temporal scales”
- 2022 Feindel Brain and Mind Lecture Series, McGill University, Canada
“The functional connectome across temporal scales”
- 2021 Seminar of the Cognition & Brain Mapping Group, Northwestern University
“The functional connectome across temporal scales”
- 2021 20th World Congress of Intl Organization of Psychophysiology (IOP) (virtual)
“Spatial and temporal principles of electrophysiological connectome dynamics”
- 2021 Seminar of Neuro-Cognitive Psychology, University of Munich, Germany
“The functional connectome across spatiotemporal scales: integrating fMRI and (i)EEG”
- 2021 Georgia Institute of Technology Neuroscience Seminar Series, Atlanta, GA
“How integrating fMRI and (i)EEG changes our understanding of the human brain”
- 2021 Beckman Institute Director’s Seminar, Urbana, IL
“The functional connectome across spatiotemporal scales”
- 2020 Medical University of South Carolina, Charleston, SC
Center for Biomedical Imaging Seminar series
“Intrinsic connectivity across spatiotemporal scales: integrating fMRI, EEG, and ECoG”
- 2019 Whistler Summer Workshop on Brain Functional Organization, Noosa, Australia
“The connectome across electrophysiological and hemodynamic signals: Bridging modalities to understand the brain’s dynamic functional repertoire”.
- 2019 Mathematical and Computational Psychology colloquia, Purdue, West Lafayette, IN
“Intrinsic cognitive architectures and the significance of spontaneous brain activity”
- 2017 Cognitive Science Seminar, University of Arizona, Tucson, AZ
“Network dynamics underlying cognitive control”
- 2017 Center for Latin American and Caribbean Studies, Univ. of Illinois, Urbana, IL
“Brain structure and function in adult ZIKV patients with neurological manifestations: A collaboration in the Dominican Republic.”
- 2016 International Congress of Neurology and Neurosurgery, Dominican Republic
“Advances in Functional Neuroimaging: Cognitive Relevance of Intrinsic Brain Activity and Connectivity”
“Nicotinic Receptor Polymorphism Linked to Alertness and Cingulo-Opercular Network Activity”
- 2016 SYNAPSE Carle Neuroscience Conference, Carle Foundation Hospital, Urbana, IL
“Cognitive Relevance of Intrinsic Brain Activity and Connectivity”
- 2016 Cognitive Neuroscience, Washington University, St. Louis, MO
“A *CHRNA4* polymorphism impacting cingulo-opercular network activity and alertness”
- 2015 UCLA Advanced Neuroimaging Summer Program, Los Angeles, CA
“Graph Analysis in fMRI”
“Network Analysis”
- 2012, 2013, ESMRMB International educational workshop series on Resting State fMRI, Magdeburg, Germany; Vienna, Austria; & Berlin, Germany

- & 2015 “Interactions between ongoing and evoked activity”
“Combining EEG/fMRI of ongoing activity”
- 2015 Neuroengineering IGERT symposium, Urbana, IL
“Electrophysiological Signatures of Large-Scale Functional Connectivity Networks”
- 2012 EEG-fMRI: from trial to trial. Delmenhorst, Germany
“Large-scale phase synchrony and intrinsic connectivity networks for top-down control.”
- 2011 International Conference on Cognitive Neuroscience, symposium, Mallorca, Spain
“Does alpha synchronization index that cyclic inhibition maintains alertness?”

Other Selected Talks:

- 2024 Organization for Human Brain Mapping annual meeting, symposium talk, Seoul, South Korea
“Functional Connectome Dynamics – Slow, Fast, or Both?”
- 2023 Cognitive Neuroscience Society, symposium talk, San Francisco, CA
“Tangling with the entangled brain; Putting the global back into the local”
- 2023 Organization for Human Brain Mapping annual meeting, symposium talk, Montreal, Canada
“Timescale-overarching principles shape brain state dynamics”
- 2021 Annual internat. conference of IEEE Engineering in Medicine and Biology Society (virtual)
workshop talk “Measuring the functional connectome across temporal scales”
- 2021 Cognitive Neuroscience Society, symposium talk (virtual)
“Cognitive control network states impacting perception”
- 2020 Organization for Human Brain Mapping annual meeting, educational course (virtual)
“Intrinsic connectivity across modalities: Integrating information from EEG-fMRI and ECoG to understand intrinsic connectivity”
- 2017 Advanced Computational Neuroscience Network – Big Data workshop. Bloomington, IN
“A common nicotinic receptor polymorphism promotes individual differences in tonic alertness and Cingulo-Opercular network activity”
- 2016 Org for Human Brain Mapping annual meeting, symposium talk, Geneva, Switzerland
“The role of intrinsic functional connectivity in perception”
- 2016 Cognitive Neuroscience Society annual meeting, symposium talk, NYC
“Dynamic functional connectivity and behavioral variability”
- 2009 Organization for Human Brain Mapping annual meeting, San Francisco, CA
“Antagonistic contributions of distributed ongoing activity fluctuations to auditory stimulus detection” *NeuroImage 47 (Supplement 1) S155.*
- 2005 Society for Neuroscience annual meeting, Washington DC
“Spatiotemporal brain activation pattern during visually-guided reaching using cortical-surface-based methods.”

Conference/Workshop/Symposium Organizer:

- 2023 Symposium organizer, Org for Human Brain Mapping annual meeting, Montreal, Canada
“Temporal Organizing Principles of the Connectome”
- 2021 Co-organizer, 5th Big Data Neuroscience Meeting of the Advanced Computational Neuroscience Network, Urbana, IL
- 2019 Symposium organizer, Org for Human Brain Mapping annual meeting, Rome, Italy
“Spatial Organization of Connectivity over Timescales”

2017	Co-organizer, Global BrainHack (neuroscience hackathon) Illinois chapter, Urbana, IL
2017	Co-organizer, Brain Oscillations Symposium, Urbana, IL
2013	Session Chair, Organization for Human Brain Mapping, Seattle, WA “Multi-Modal Modeling and Analysis Methods”

TEACHING AND MENTORING

University of Illinois, Urbana-Champaign

Course Instructor

2018-present	PSYC496/593 Practical Issues in Cognitive Control Research and Network Neuroscience
2018	PSYC396 Neuroanatomy and Neuropsychology
2016-present	PSYC445/NEUR445 Cognitive Neuroscience Laboratory (focus on Functional Neuroimaging)
2016, 2021	PSYC598 Brain & Cognition Proseminar

Postdoc Mentor

2024 - present	Suhnyoung Jun
2019-2024	Thomas Alderson
2016-2018	Jonathan Wirsich Now permanent staff scientist at University Hospitals of Geneva

Graduate Mentor

2016-2023	Maximillian Egan, Department of Psychology PhD program Now senior staff scientists at University of Michigan
2016-2019	Richard Bido-Medina, Neuroscience Graduate Program Now Psychiatrist at MGH/Harvard
2019-2021	Yuetian (Vivian) Li, Department of Psychology M.Sc. Program
2019-2024	Suhnyoung Jun, Department of Psychology PhD program Now postdoctoral researcher at UIUC
2018-2024	Parham Mostame, Department of Psychology PhD program Now research scientist at LVIS
2021-present	Martín Irani, Neuroscience Graduate Program PhD program
2022-present	Sarah Olshan, Department of Psychology PhD program
2023-present	Leykza Carreras-Simons, Department of Psychology PhD program
2024-present	Samar ElSayed, Department of Psychology PhD program
2024-present	Samane Kazemi, Department of Psychology PhD program
2024-present	Zexin Zhen, Department of Psychology M.Sc. Program

Undergraduate Thesis Mentor

2016-2017	Paul McGrath, Bachelor’s thesis, visiting student from Germany
2016	Austin Durlinger, Honors credit paper, LAS James Scholar
2018	Jessica Diaz, Bachelor’s thesis, Dept. of Psychology
2019	Lija Hoffman, Bachelor’s thesis, Dept. of Psychology
2019	Edwin Guzman, Bachelor’s thesis, Dept. of Psychology
2019	Coleen Long, Bachelor’s thesis, Dept. of Psychology
2020	Sunaina Karanth, Bachelor’s thesis, Dept. of Psychology
2021	Julia Gainski, Bachelor’s thesis, Dept. of Psychology
2024	Ryan Adolphs, Bachelor’s thesis, Dept. of Psychology

University of California at Berkeley

2011-2012	Cyril Costines, Bachelor’s thesis, visiting student from Germany
2012-2013	Pascasie Leonie Dombert, Master’s thesis, visiting from the Netherlands

AWARDS AND HONORS GRANTED TO TRAINEES

University of Illinois, Urbana-Champaign

2024	Zifan (Peter) Zhao, Beckman Institute Undergraduate Fellow (\$3k)
2023-present	Leykza Carreras-Simons, Graduate College Fellowship (\$75k)
2020-2021	Parham Mostame, Beckman Graduate Fellowship (\$25k)
2019-2022	Maximillian Egan, NSF Graduate Research Fellowship (\$102k)
2018-2019	Maximillian Egan, Beckman Graduate Fellowship (\$25k)
2018	Richard Bido-Medina, Illinois International Graduate Achievement Award (\$500)
2017	Richard Bido-Medina, Center for Latin American and Caribbean Studies, Tinker Summer Research Fellowship (\$2k)
2017	Laura Pritschet, Carle Neuroscience Institute Undergraduate Research Award (\$3k)

SERVICE

Diversity, Equity, and Inclusion

2023-	Diversity and Inclusion Committee member, Beckman Institute for Advanced Science and Technology
2022	Panelist, DEI workshop, Cognitive Neuroscience Society Meeting, San Francisco
2019/2020	Diversity Committee, faculty contact for students
2006-2009	Etudes Sans Frontières – member of selection committee for college scholarship awardees in the Democratic Republic of the Congo
2006-2008	Online mentor in “CyberMentor” program promoting interest of girls in STEM, Germany
2006	“Girls’ Day” organizer, Max-Planck Institute for Biological Cybernetics, Germany Lectures and hands-on demonstrations of experimental research for middle-school girls

Grant/Award Reviewer

2021-2022	NIH study section “Human Complex Mental Functions (HCMF)”, review panel member
2019	Fast-Start Award of the Marsden Fund, Government of New Zealand, ad-hoc reviewer
2018	Career Development Award of the International Human Frontier Science Program, ad-hoc reviewer

Service at the University of Illinois

2023-2024	General Education Committee , College of LAS
2021-2026	Executive Committee , Beckman Institute for Advanced Science and Technology
2023	Faculty Hiring Committee , Department of Psychology
2022-	Graduate Education Committee , Department of Psychology
2022-	Lanier Lecture Committee , Department of Psychology
2021-2022	Director Hiring Committee , Beckman Institute for Advanced Science and Technology
2021	Faculty Hiring Committee , Department of Psychology
2018-2020	Program Advisory Committee , Beckman Institute for Advanced Science & Technology
2019/2020	Undergraduate Studies Committee Member
2016/17/23	Admissions Committee , University of Illinois, Urbana-Champaign
2016-present	Dissertation Committee Member: University of Illinois, Urbana-Champaign: Giang-Chau Ngo, Dept. of Bioengineering

Cybelle Smith, Dept. of Psychology
Tania Kong, Dept. of Psychology
Lydia Nguyen, Dept. Speech and Hearing
Daniel Bowie, Dept. of Psychology
Lizzy Lydon, Dept. Speech and Hearing
Grace Clements, Dept. of Psychology
Paul Camacho, Dept. of Bioengineering
Haley Skymba, Dept. of Psychology
Aishwarya Rajesh, Dept. of Psychology (ongoing)
Shagun Ajmera, Dept. Speech and Hearing (ongoing)
Teresa Warren, Dept. Speech and Hearing (ongoing)
Jonathan Cerna, Neuroscience Program (ongoing)
Corey Richer, Dept. of Psychology (ongoing)
Megan Finnegan, Dept. of Psychology and Neurosci Program (ongoing)
Chris Perriello, Dept. of Psychology (ongoing)
Ilber Manavbasi, Neuroscience Program (ongoing)
Yagiz Olmez, Dept. of Mechanical Science and Engineering (ongoing)

External:

Autio Jaakko, Aalto University, Finland
Saurabh Sonkusare, University of Queensland, Australia
Tabea Kamp, Maastricht University, The Netherlands
David Distefano, MSc student, Department of Psychology at Tufts Univ.