Sarah A. Cutts

Curriculum Vitae

Contact Information

Indiana UniversityEmail: sarcutts@iu.eduPsychological and Brain SciencesPhone: (678) 860-26701101 E. 10th StreetBloomington, IN 47405		
Education		
2020-present	Committee: Dr. Olaf Sporns (Adv	ogy, Indiana University, Bloomington <i>isor</i>), Dr. Richard Betzel, Dr. Daniel Kennedy
2014-2019	B.S. Biology, University of Georg B.S. Psychology, University of G Honors: <i>magna cum laude</i> ; CURG	eorgia, Athens
Research Experience		
2020-present	<i>Graduate Student</i> Computational Cognitive Neurose Psychology Department, Indiana PI: Dr. Olaf Sporns	
2019-2020	Lab Technician (Developmental I Eggenschwiler Lab Genetics Department, University PI: Dr. Jonathan Eggenschwiler	
2019-2020	Research Assistant Sensorimotor Neuroscience Lab Kinesiology Department, Univers PI: Dr. Tarkeshwar Singh	ity of Georgia, Athens, GA
2018-2020	Undergraduate Research Assistan Primate Cognition and Behavior I Psychology Department, Universit PI: Dr. Dorothy Fragaszy	Lab
2017-2019	Undergraduate Research Assistan Clinical Neuroscience Lab Psychology Department, Universit PI: Dr. Lawrence Sweet	

Grant Funding

2023-present NIH T32 Training Program in Integrative Developmental Process

Awards & Fellowships_

2022	NSF GRFP Honorable Mention
2022	IU Qualifying Exam Commendation
2022	IU Sharon Stephens Brehm Excellence in Research Award (\$1000)
2020	IU PBS Departmental Summer Fellowship (\$6000/yr, 5 years)
2020	IU Rebec Family Neuroscience Fellowship (\$3000/yr, 3 years)
2019	UGA CURO Research Assistantship (\$1000)

Academic Activities

*(Fa) Fall semester; (Sp) Spring semester; (Su) Summer

Invited Talks

2023 Su	Temporal Variability of Brain-Behavior Relationships in Functional Connectivity Oral Session, Organization for Human Brain Mapping
Teaching	
2022 Sp	P406: Developmental Cognitive Neuroscience Teaching Assistant
2023 Sp, 2022 Fa, & 2021 Fa	P457: The Connected Brain Teaching Assistant

Departmental Involvement

2022-present	IU PBS Graduate Student Council Representative
2023 Sp	IU Precision Developmental Science Faculty Search Committee
2022 Fa	Talk: Insights from Models of the Human Brain Guest lecture for P457, The Connected Brain
2021 Fa	Annual Biomedical Research Conference for Minoritized Scientists (IU Graduate Recruiter)
2021 Fa	Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (<i>IU Graduate Recruiter</i>)

2021 Fa	Talk: <i>Individual Differences and Connectivity</i> Guest lecture for P457, The Connected Brain
2021 Fa	Poster: Uncovering Variation of Individual Differences in Fine-Scale Dynamics of Functional Connectivity Departmental first-year research symposium

Workshops and Courses

2023 Su	Whole-brain, Connectome-based Models of Brain Dynamics: From Principles to Applications OHBM 2023 Educational Workshop
2023 Sp	7th Whistler Scientific Workshop on Brain Functional Organization, Connectivity, and Behavior Whistler 2023 (virtual)
2023 Sp	<i>Network Science</i> IU Informatics (<i>audited course</i>)
2022 Fa	Introduction to Dynamical Systems in Cognitive Science IU Cognitive Science (audited course)
2022 Fa	Introduction to Complex Systems IU Informatics (audited course)
2021 Fa	Information Theory Workshop IU Psychological and Brain Sciences

Non-Departmental Service

2022-present	NextGen Psych Scholars Program Lead Mentor (2023-present); Mentor (2022-2023)
2022	Application Statement Feedback Program (Editor)
2017-2019	UGA Undergraduate Neuroscience Organization President (2018-2019) & Philanthropy Chair (2017-2018)

Journal Peer Review

Imaging Neuroscience

iScience

Professional Affiliations

Organization for Human Brain Mapping Society for Neuroscience Network Science Society Psi Chi Phi Beta Kappa

Publications

- Cutts, S.A., Chumin, E.J., Betzel, R.F., Sporns, O. (2023). Temporal Variability of Brain-Behavior Relationships in Fine-Scale Dynamics of Edge Time Series. *bioRxiv*.
- Chumin, E.J., Cutts, S.A., Risacher, S.L., Apostolova, L.G., Farlow, M.R., McDonald, B.C., Wu, Y., Betzel, R.F., Saykin, A.J., Sporns, O. (2023) Edge Time Series Components of Functional Connectivity and Cognitive Function in Alzheimer's Disease. *Brain Imaging* and Behavior (under review).
- Betzel, R.F., Cutts, S.A., Tanner, J., Greenwell, S., Varley, T., Faskowitz, J., Sporns, O. (2023) Hierarchical organization of spontaneous co-fluctuations in densely-sampled individuals using fMRI. *Network Neuroscience*, 1-38.
- Cutts, S.A., Faskowitz, J., Betzel, R.F., Sporns, O. (2022). Uncovering Variation of Individual Differences in Fine-Scale Dynamics of Functional Connectivity. *Cerebral Cortex, 33* (5), 2375-2394.
- Betzel, R.F., Cutts, S.A., Greenwell, S., Sporns, O. (2022). Individualized event structure drives individual differences in whole-brain functional connectivity. *NeuroImage*, 252, 118993.
- Chumin, E.J., Faskowitz, J., Esfahlani, F.Z., Jo, Y., Merritt, H., Tanner, J., Cutts, S.A., Pope, M., Betzel, R.F., Sporns, O. (2022). Cortico-Subcortical Interactions in Overlapping Communities of Edge Functional Connectivity. *NeuroImage*, 250, 118971.
- Sporns, O., Faskowitz, J., Teixeira, A.S., Cutts, S.A., Betzel, R.F. (2021). Dynamic expression of brain functional systems disclosed by fine-scale analysis of edge time series. *Network Neuroscience* 5 (2), 405-433.
- Barany, D.A., Gómez-Granados, A., Schrayer, M., Cutts, S.A., & Singh, T. (2020). Perceptual decisions about object shape bias visuomotor coordination during rapid interception movements. *Journal of Neurophysiology* 123 (6), 2235-2248.
- Cutts, S.A., Fragaszy, D.M., & Mangalam, M. (2019). Consistent inter-individual differences in susceptibility to bodily illusions. *Consciousness and Cognition* 76:102826.
- Mangalam, M., Cutts, S.A., & Fragaszy, D.M. (2019). Sense of ownership and not the sense of agency is spatially bounded within the space reachable with the unaugmented hand. *Experimental Brain Research*, 237 (11), 2911–2914.

Conference Presentations

- Cutts, S.A., Chumin, E.J., Betzel, R.F., Sporns, O. (2023, July & September). *Temporal Variability of Brain-Behavior Relationships in Functional Connectivity*. Poster presented at the Organization for Human Brain Mapping and at the Greater Indiana Society for Neuroscience.
- Chumin, E.J., Cutts, S.A., Risacher, S.L., Apostolova, L.G., Farlow, M.R., McDonald, B.C., Wu, Y., Betzel, R.F., Saykin, A.J., Sporns, O. (2023, July). *Edge Time Series Components of Functional Connectivity and Cognitive Function in Alzheimer's Disease*. Poster presented at the Organization for Human Brain Mapping.
- Betzel, R.F., Cutts, S.A., Tanner, J., Greenwell, S., Faskowitz, J., Sporns, O. (2022, June). *Hierarchical Organization of Spontaneous Co-fluctuations in fMRI*. Poster presented at the Organization for Human Brain Mapping.
- Cutts, S.A., Faskowitz, J., Betzel, R.F., Sporns, O. (2021, July). Uncovering Variation of Individual Differences in Fine-Scale Dynamics of Functional Connectivity. Poster presented at the Organization for Human Brain Mapping and at Networks 2021, virtual.
- Betzel, R.F., Cutts, S.A., Greenwell, S., Sporns, O. (2021, July). *Personalized event structure drives whole-brain functional connectivity*. Poster presented at the Organization for Human Brain Mapping, virtual.
- Betzel, R.F., Faskowitz, J., Esfahlani, F.Z., Jo, Y., Merritt, H., Tanner, J., Cutts, S.A., Pope, M., Chumin, E.J., Sporns, O. (2021, July). *Task-induced reconfiguration of edge functional connectivity and communities*. Poster presented at the Organization for Human Brain Mapping, virtual.
- Chumin, E.J., Faskowitz, J., Esfahlani, F.Z., Jo, Y., Merritt, H., Tanner, J., Cutts, S.A., Pope, M., Betzel, R.F., Sporns, O. (2021, July). *Cortico-Subcortical Interactions in Overlapping Communities of Edge Functional Connectivity*. Poster presented at the Organization for Human Brain Mapping, virtual.
- Cutts, S.A., Mangalam, M., & Fragaszy, D.M. (2019, April). *Consistent Inter-Individual Differences in Susceptibility to Bodily Illusions*. Poster presented at the University of Georgia Center for Undergraduate Research 2019 Spring Symposium.
- Barton, S.A., Cutts, S.A., Garner, E., Presley, H.W., & Fragaszy, D.M. (2019, March). *Assessing Vigilance Behavior in Wild Bearded Capuchin Monkeys (Sapajus Libidinosus)*. Poster presented at the South Eastern Evolution and Human Behavior Conference (SEEHB).
- Cutts, S.A., Hallowell, E.S., Oshri, A., & Sweet, L.H. (2018, April). *Neural Correlates of Early Life Stress and Depressive Symptoms*. Poster presented at the annual meeting of the Georgia Psychological Association.