

# HAILY MERRITT

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[h-merritt.github.io](https://h-merritt.github.io)

## RESEARCH INTERESTS

social & developmental neuroscience; network neuroscience; complex systems science  
origins & consequences of sociality; evolutionary & adaptive models; dynamical systems

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## EDUCATION

*Indiana University, Bloomington, USA* *8.2020 – present*  
Dual PhDs in Informatics (Complex Networks & Systems track) and Cognitive Science  
Dissertation (In progress, Expected Spring 2025): “A Complex Systems Perspective on the  
Origins and Neural Consequences of Sociality”  
Committee: Dr. Richard F. Betzel (chair), Dr. Olaf Sporns (co-chair), Dr. Randall Beer, Dr.  
Gregory Lewis

*Northeastern University, London, UK* *Summer 2024*  
Visiting Research Scholar

*CENTAI Institute, Turin, Italy* *Summer 2024*  
Visiting Research Scholar

*Indiana University, Bloomington, USA* *8.2013 – 5.2018*  
BAs in Linguistics (with Departmental Honors), Cognitive Science (with concentration in  
Neuroscience), and Central Eurasian Studies; *Summa cum laude*  
Honors thesis: “Language Mode Influences Language-Specific Categorization”  
Advisor: Dr. Isabelle Darcy

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## AWARDS, HONORS, GRANTS, & SCHOLARSHIPS

AccelNet-Multinet Exchange Fellowship	2024
Wells Graduate Fellowship Nominee	2024
PEO Scholars Award Nominee	2023
Outstanding Teaching Award	2023
Luddy Diversity PhD Fellowship	2023
Google PhD Fellowship Nominee for Indiana University	2022
Microsoft Research PhD Fellowship Nominee for Indiana University	2022
ALIFE 2022 Top 5 Papers	2022
NSF Research Traineeship in Complex Networks & Systems	2020, 2021
Hutton Honors Notation	2018
Outstanding Undergraduate Achievement Award	2018
Founders Scholar Award	2013, 2014, 2015, 2017
College of Arts & Sciences Executive Dean’s List	2013, 2014, 2015, 2017
Cox Research Scholarship	2013, 2014, 2015, 2017
Hutton Pre-Professional Experience Internship Grant	2017
Turkish Flagship Overseas Study Grant	2016

Hutton Family Study Abroad Scholarship	2016
Hutton International Experiences Program Grant	2016
Outstanding Research Award	2016
Anderson Overseas Study Scholarship	2016

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## BRIEF RESEARCH STATEMENT

I am interested in the origins and consequences of sociality with an emphasis on experience, environment, interaction, and dynamics. To approach this multi-faceted phenomenon, I pursue two angles of research: (1) I identify how human brain network organization varies in concert with social environmental experiences over the lifespan using cutting edge analyses from network science and (2) I investigate foundational principles and assumptions of social interaction with dynamical models of interacting artificial agents. I leverage big data from openly available datasets to appeal broadly to human experience as well as computer simulations to facilitate ground truth understanding. Additionally, I prioritize developing publicly accessible code for a variety of analytical techniques to contribute to a science that serves everyone.

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## PUBLICATIONS & PRESS

### Published

- Merritt, H.**, Faskowitz, J., Gonzalez, M.Z., & Betzel, R.F. (2024). Stability and variation of brain-behavior correlation patterns across measures of social support. *Imaging Neuroscience*. Preprint: [bioRxiv. https://doi.org/10.1101/2023.03.23.533966](https://doi.org/10.1101/2023.03.23.533966)
- Nomura, K., Rella, S., **Merritt, H.**, Bird, D., Baltussen, M., & Falk, D. (2024). Tipping Points of Space Debris in Low Earth Orbit. *International Journal of the Commons*, 18(1), 17-31. DOI: [10.5334/ijc.1275](https://doi.org/10.5334/ijc.1275). [Link to PDF](#).
- Merritt, H.**, Severino, G., & Izquierdo, E. (2023). The Dynamics of Social Interaction among Evolved Model Agents. *Artificial Life* 29(4), 1-24. [Link to PDF](#).
- Severino, G., **Merritt, H.**, & Izquierdo, E. (2023). Between you and me: A systematic analysis of mutual social interaction in perceptual crossing agents. *ALIFE 2023: Proceedings of the 2023 Conference on Artificial Life*. [Link to PDF](#).
- Izquierdo, E., Severino, G., & **Merritt, H.** (2022). Perpetual Crossers without Sensory Delay: Revisiting the Perceptual Crossing Simulation Studies. *ALIFE 2022: Proceedings of the 2022 Conferences on Artificial Life*. [Link to PDF](#).
- Chumin, E., Faskowitz, J., Esfahlani, F.Z., **Merritt, H.**, Tanner, J.C., Cutts, S., Pope, M., Betzel, R.F., & Sporns, O. (2022). Cortico-Subcortical Interactions in Overlapping Communities of Edge Functional Connectivity. *NeuroImage*, 250, 118971. [Link to PDF](#).
- Esfahlani, F.Z., Jo, Y., Puxeddu, M.G., **Merritt, H.**, Tanner, J.C., Greenwell, S., Patel, R., Faskowitz, J., & Betzel, R.F. (2021). Modularity maximization as a flexible and generic framework for brain network exploratory analysis. *NeuroImage*, 244, 118607. [Link to PDF](#).
- Merritt, H.** (2019). Embodied Grammaticalizations of Time in Hakha Chin. *Indiana University Working Papers in Southeast Asian Languages* 1(1). [Link to PDF](#).
- Merritt, H.** (2019). Language Mode Influences Language-Specific Categorization. *Indiana University Journal of Undergraduate Research* 4(1), 118-123. [Link to PDF](#).

### **In Review or Revision**

- Koch, M., **Merritt, H.**, McCormick, K., Inniss-Thompson, M., Mendle, J. (In Review). Are You There, God? It's Me, Gender Stereotypes in Coming-of-Age Novels. *Child Development*.
- Rice, M., **Merritt, H.**, & Gonzalez, M.Z. (In Review). The social dimension of developmental context and its impact on reinforcement sensitivity and internalizing symptoms in emerging adulthood. *Journal of Adolescence*.
- Merritt, H.** & Betzel, R.F. (In Review). A Network Neuroscience of Social Support. *Nature Reviews Neuroscience*.

### **In Prep**

- Merritt, H.**, Koch, M.K., Youngheun, J., Chumin, E., & Betzel, R.F. (In prep). Social Experience Defines Hierarchical and Dynamic Envirotypes with Dissociable Functional Brain Network Organization.
- Merritt, H.**, Lewis, G., & Betzel, R.F. (In prep). Implications of Human Sociality for Neuroscience.
- Betzel, R.F., **Merritt, H.**, & Mejia, A. (In prep). Situating edge time series within the generalized linear model framework.
- Koch, M.K., **Merritt, H.**, & Mendle, J. (In prep). Sanitized and sexualized: Puberty according to youth, ChatGPT, and television.
- Hartle, H., Klein, B., ... **Merritt, H.**, ... Aleta, A. (In prep). Coarse-graining complex networks.
- Moreno, Y., ... **Merritt, H.**, ... (In prep). The state of the field of multilayer network science.
- Merritt, H.**, Severino, G.J., & Izquierdo, E.J. (In prep). There Are Many Ways to Be Social: Characterizing Behavioral and Neural Dynamic Diversity of Virtual Social Agents.

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## **PRESENTATIONS & TALKS**

### **Refereed**

\* mentee, † won award, ^ co-first authors

- Merritt, H.**, Severino, G. J.. & Izquierdo, E. J. (In review). Characterizing diversity in behavioral strategies for social interaction. Conference on Artificial Life. Copenhagen, Denmark.
- Merritt, H.**, Mejia, A., & Betzel, R.F. (In review). Situating edge time series within the generalized linear model framework. Conference on Network Science. Quebec City, Canada.
- Jo, Y., **Merritt, H.**, Faskowitz, J., & Betzel, R.F. (2024). Hierarchical communities of high-amplitude co-fluctuations in extremity disuse. Organization for Human Brain Mapping. Seoul, South Korea.
- Betzel, R.F., **Merritt, H.**, & Mejia, A. (2024). Situating edge time series within the generalized linear model framework. Organization for Human Brain Mapping. Seoul, South Korea.
- Merritt, H.**, Koch, M.K., Youngheun, J., Chumin, E., & Betzel, R.F. (2024). Social experiences defines hierarchical and dynamic groups with dissociable functional brain network organization. Society for Research on Adolescence. Chicago, USA.
- Koch, M.K., **Merritt, H.**, & Mendle, J. (2024). Sanitized and sexualized: Puberty according to youth, ChatGPT, and television. Society for Research on Adolescence. Chicago, USA.

- Merritt, H.**, Koch, M.K., Youngheun, J., Chumin, E., & Betzel, R.F. (2024). Social experiences defines hierarchical and dynamic groups with dissociable functional brain network organization. Blitz talk presented at the Annual Meeting of the Social and Affective Neuroscience Society. Toronto, Canada.
- Merritt, H.**, Koch, M.K., Youngheun, J., Chumin, E., & Betzel, R.F. (2024). Social experiences defines hierarchical and dynamic groups with dissociable functional brain network organization. Poster Presented at the Annual Meeting of the Social and Affective Neuroscience Society. Toronto, Canada.
- Merritt, H.**, Mejia, A., & Betzel, R.F. (2024). Situating edge time series within the generalized linear model framework. Brain Connectivity Workshop. Noosa, Australia.
- Severino, G., **Merritt, H.**, & Izquierdo, E. (2023). Between you and me: A systematic analysis of mutual social interaction in perceptual crossing agents. Paper presented at ALIFE 2023, Sapporo, Japan.
- Merritt, H.**, Koch, M.K., Youngheun, J., Chumin, E., & Betzel, R.F. (2023). Social experience defines hierarchical groups with dissociable functional network organization. Poster presented at the Organization for Human Brain Mapping, Montreal, Canada.
- Koch, M.K., **Merritt, H.**, Inniss-Thompson, M., McCormick, K., & Mendle, J. (2023). Are you there, God? It's me, Gender Bias in the American Coming-of-Age Novel. Talk presented at the Biennial meeting of the Society for Research on Adolescence, San Diego, CA, USA.
- <sup>^</sup>Nomura, K., <sup>^</sup>Bird, D., <sup>^</sup>Tjuka, A., <sup>^</sup>Baltussen, M., <sup>^</sup>Zosh, C., <sup>^</sup>Rella, S., <sup>^</sup>Falk, D., <sup>^</sup>**Merritt, H.** (2022). A mathematical model of critical points in space debris density according to governance. Talk presented at the Commons in Space 2022 Virtual Conference.
- <sup>†</sup>Izquierdo, E., Severino, G., & **Merritt, H.** (2022) Perpetual crossers without sensory delay: Revisiting the perceptual crossing simulation studies. Talk presented at ALIFE 2022, virtual.
- [\*\*Merritt, H.\*\*, Faskowitz, J., Gonzalez, M.Z., Sporns, O., & Betzel, R. \(2022\). A multilayer modularity approach to perceived social support. Poster presented at the 14<sup>th</sup> annual virtual meeting of the Social and Affective Neuroscience Society.](#)
- \*Shah, N., **Merritt, H.**, & Izquierdo, E. (2022). Does size matter?: The effect of neuron number on the performance of a chemotaxer. Talk at the Midwest Undergraduate Cognitive Science Conference.
- \*<sup>†</sup>Shah, N., **Merritt, H.**, & Izquierdo, E. (2022). Does size matter?: The effect of neuron number on the performance of a chemotaxer. Poster presented at the Center for Excellence of Women & Technology Undergraduate Poster Competition.
- \*Susana, J., **Merritt, H.**, & Izquierdo, E. (2022). Computational model evaluating the effects of social network structure on collective decision-making and minority influence. Poster presented at the Center for Excellence of Women & Technology Undergraduate Poster Competition.
- \*Niese, A., **Merritt, H.**, & Izquierdo, E. (2022). Feasting forests: Influence of mycorrhizal network structure on resilience. Poster presented at the Center for Excellence of Women & Technology Undergraduate Poster Competition.
- Betzel, R.F., Faskowitz, J., Zamani Esfahlani, F., Jo, Y., **Merritt, H.**, Tanner, J., Cutts, S., Pope, M., Chumin, E., Sporns, O. (2021). Task-induced reconfiguration of edge functional connectivity and communities. Poster presented at the 27<sup>th</sup> annual meeting of the Organization for Human Brain Mapping.
- Chumin, E., Faskowitz, J., Zamani Esfahlani, F., Jo, Y., **Merritt, H.**, Tanner, J., Cutts, S., Pope, M., Betzel, R., & Sporns, O. (2021). Cortico-subcortical interactions in overlapping communities of

edge functional connectivity. Poster presented at the 27<sup>th</sup> annual meeting of the Organization for Human Brain Mapping.

Gonzalez, M. Z. & **Merritt, H.** (2019). Social early life stress mediates the effects of economic factors on internalizing symptoms and reward sensitivity. Poster presented at the 52<sup>nd</sup> Annual Meeting of the International Society for Developmental Psychobiology, Chicago, IL.

†**Merritt, H.** (2018). Talking about Time. Paper presented at the 9th Annual Midwest Undergraduate Cognitive Science Conference, Bloomington, IN.

Sulik, J., **Merritt, H.**, & Lupyan, G. (2017). The effect of overt language use in category induction. Poster presented at the 39<sup>th</sup> Annual Meeting of the Cognitive Science Society.

†**Merritt, H.** (2016). Language Mode: A key to the bilingual's phonological store. Poster presented at the 8th Annual Midwest Undergraduate Cognitive Science Conference, Bloomington, IN.

**Merritt, H.** (2016). The Effect of Language Mode on Perception. Paper presented at the Hutton Honors College Research Symposium, Bloomington, IN.

**Merritt, H.** (2015). Does Language Mode Affect Language-Specific Perception and Categorization?. Poster presented at the Indiana University Undergraduate Research Conference, Bloomington, IN.

### **Invited**

\* mentee, † international, ^ co-first authors

**Merritt, H.** (2024). Brain network organization varies across social environments. Talk presented to the Control and Network Connectivity Team Lab at University of Illinois, Urbana-Champaign, IL, USA.

†**Merritt, H.** (2024). Brain network organization varies across social environments. Talk presented to the Systems Neuropsychiatry Research Group, University of Melbourne, Melbourne, Australia.

**Merritt, H.**, Koch, M.K., Youngheun, J., Chumin, E., & Betzel, R.F. (2024). Social environment defines hierarchical and dynamic “envirotypes” with dissociable brain network organization. Talk presented at Cognitive Lunch, Bloomington, IN, USA.

**Merritt, H.**, Koch, M.K., Youngheun, J., Chumin, E., & Betzel, R.F. (2023). Differences in adolescent social environment experience are linked to differences in brain network connectivity. Poster presented at NRT Research Showcase, Bloomington, IN, USA.

**Merritt, H.**, Faskowitz, J., Gonzalez, M.Z., & Betzel, R. (2022). A multilayer network approach to social neuroecology. Invited talk in the Life History Lab at Cornell University, Ithaca, NY, USA.

**Merritt, H.** (2018). Speaking of Time. Paper presented at the 1st Annual Indiana University Research Slam, Bloomington, IN, USA.

**Merritt, H.** (2018). Time and Time Again. Paper presented at the Indiana University Cox Research Scholars Interview Day, Bloomington, IN, USA.

### **Other**

\* mentee, † won award, ^ co-first authors

**Merritt, H.** & Severino, G. J. (2024). Perceptual Crossing, Part IV. Talk presented in the Computational Neuroethology Lab at Indiana University.

**Merritt, H.**, Koch, M.K., Youngheun, J., Chumin, E., & Betzel, R.F. (2023). Social experience defines hierarchical groups with dissociable functional network organization. Talk presented in the Brain Networks and Behavior Lab.

**Merritt, H.** (2022). A model of space debris. Presentation in the Computational Neuroethology Lab at Indiana University.

**Merritt, H.** & Betzel, R. (2021). A multilayer network approach to social neuroecology. Presentation in the Computational Neuroethology Lab at Indiana University.

**Merritt, H.** & Betzel, R. (2021). A multilayer approach to social neuroecology. Presentation in the Brain Networks and Behavior Lab at Indiana University.

**Merritt, H.** (2021). Brain network features as neuroendophenotypes. Talk presented at the first Workshop on Methods in Network Science presented by Women in Network Science.

**Merritt, H.** (2020). Clustering edge-centric functional connectivity data. Presentation in Environmental Agents and Systems Lab, Bloomington, IN.

**Merritt, H.** (2019). A practical introduction to the Shared Response Model. Invited talk at the Integrative Neuroscience Salon, Cornell University, Ithaca, NY.

**Merritt, H.** (2018). Grammaticalizations of Time in Hakha Chin. Poster presented at the Field Methods in Linguistics Symposium, Bloomington, IN.

**Merritt, H.** (2017). Design Stance. Paper presented at the Language and Cognitive Development Lab Meeting, Berkeley, CA.

**Merritt, H.** (2016). The role of explicit knowledge in problem solving. Paper presented at the Psychological Research Experience Program Symposium, Madison, WI.

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## SKILLS

Software	Adobe Illustrator, Microsoft Office Suite
Natural Languages	English (native), Turkish, Spanish
Programming Languages	Python, R, MATLAB, LaTeX, Mathematica, JavaScript, HTML, CSS, Bash, C++, NetLogo

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## ADDITIONAL METHODOLOGICAL TRAINING

Noosa Workshop	2.2024
Workshop, <i>Monash University; Noosa, Australia</i>	
Complex Networks Winter Workshop	12.2023
Workshop, <i>University of Vermont; Quebec, Canada</i>	
Atomic Habits: Inclusive Teaching in Informatics	Spring 2023
Workshop series funded by IEEE, <i>Indiana University</i>	
Complex Systems Summer School	Summer 2022
Summer School, <i>Santa Fe Institute, USA</i>	
Introduction to Information Theory	Fall 2020
Working group, <i>Indiana University</i>	
Introduction to Factor Analysis	3.2020
Workshop, <i>Cornell University</i>	
Introduction to Amazon Web Services and Machine Learning	6.2019
Workshop, <i>Cornell University</i>	
Introduction to Path Analysis and Mediation Analysis	3.2019

## RESEARCH EXPERIENCE

<b>Network Science Institute</b>	4.2024 – 6.2024
<i>Northeastern University London, UK &amp; CENTAI, Turin Italy</i>	
Principal Investigator: Giovanni Petri	
<b>Computational Neuroethology Laboratory</b>	9.2020 – present
<i>Department of Informatics, Indiana University, Bloomington</i>	
Principal Investigators: Randall Beer and Eduardo Izquierdo	
<b>Brain Networks and Behavior Laboratory</b>	8.2020 – present
<i>Department of Psychological and Brain Sciences, Indiana University, Bloomington</i>	
Principal Investigator: Richard Betzel	
<b>Life History Laboratory</b>	12.2018 – 8.2020
<i>Department of Human Development, Cornell University</i>	
Principal Investigator: Marlen Z. Gonzalez	
<b>Experience and Cognition Laboratory</b>	7.2018 – 12.2018
<i>Department of Human Development, Cornell University</i>	
Principal Investigator: Daniel Casasanto	
<b>Linguistic Documentation of Hakha Chin</b>	1.2018 – 9.2018
<i>Department of Linguistics, Indiana University, Bloomington</i>	
Principal Investigator: Kelly Berkson	
<b>Percepts and Concepts Laboratory</b>	8.2017 – 5.2018
<i>Department of Psychology, Indiana University, Bloomington</i>	
Principal Investigator: Robert Goldstone	
<b>Language and Cognitive Development Laboratory</b>	Summer 2017
<i>Department of Psychology, University of California, Berkeley</i>	
Principal Investigator: Mahesh Srinivasan	
<b>Second Language Psycholinguistics Laboratory</b>	9.2013 – 8.2016
<i>Department of Second Language Studies, Indiana University, Bloomington</i>	
Principal Investigator: Isabelle Darcy	
<b>Psychological Research Experience Program</b>	Summer 2016
<i>Department of Psychology, University of Wisconsin-Madison</i>	
Principal Investigator: Gary Lupyan	

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## SUMMARY OF TEACHING & MENTORING PHILOSOPHY

I strive to support students' development as critical and creative thinkers by promoting their sense of agency and their understanding of the broader societal context of the learning material. I find this is especially important in math and computation courses, for which I have won teaching awards. To support students, I incorporate student-led discussions, activity-based learning, project-based assignments to ensure content mastery, and regular, thorough feedback to ensure each student is keenly aware of their strengths and the power in their perspective. I respect and celebrate the diverse

backgrounds and contexts from which students come by empowering students' voices and regularly updating and diversifying my teaching materials to foster an inclusive, equitable, and welcoming classroom for all.

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## MENTORSHIP

Center of Excellence for Women in Technology, *Indiana University*

Sindhu Aribandi (7.2023 – present), Olivia Skrzypczak (7.2023 – present), Jasmine Susana (10.2021 – 5.2022), Aida Niese (10.2021 – 5.2022), Neha Shah (10.2021 – 5.2022)

Undergraduate Research Assistants, *Cornell University*

De'Aysia Barner (6.2020 – 8.2020), Valerie Hu (6.2020 – 8.2020), Laura Chang (1.2020 – 8.2020), Phoebe Lee (1.2020 – 5.2020), Hannah Kareff (12.2019 – 8.2020), Bryan Lu (8.2019 – 8.2020), Dave Chen (8.2019 – 5.2020), Juliana Byanyima (5.2019 – 8.2020), Eliot Shekhtman (5.2019 – 8.2020), Amber Tan (3.2019 – 8.2020), Radha Pandya (9.2018 – 12.2018)

Undergraduate Neuroimaging Database Team Members, *Cornell University*

June Kim (1.2019 – 5.2019), Medhavi Gandhi (1.2019 – 5.2019), Shaminta Hamidian (1.2019 – 5.2019)

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## TEACHING EXPERIENCE & PEDAGOGY

### Courses

\*won award, † undergraduate course, ^graduate course

^Models in Cognitive Science Fall 2023

Role: Associate Instructor, *Indiana University*

\*†Computation for Cognitive Science Spring 2023

Role: Associate Instructor, *Indiana University*

\*†Math & Logic for Cognitive Science Fall 2022

Role: Associate Instructor, *Indiana University*

†Philosophical Foundations of Cognitive Science Spring 2018

Role: Undergraduate Teaching Intern, *Indiana University*

†Introduction to the Study of Language Fall 2017

Role: Undergraduate Teaching Assistant, *Indiana University*

### Workshops

Workshop on Indiana University Supercomputers for Computational Neuroscience 6.2022

Role: Lead Organizer, *Indiana University*

Workshop Series on Methods in Network Science (virtual) 10.2021

Role: Lead Organizer, Tech Support, Speaker

Workshops on R for Data Cleaning, Analysis, and Visualization 2.2020 – 3.2020

Role: Organizer and Co-Instructor, *Cornell University*

Workshop on Qualtrics and SONA for Research 1.2020

Role: Organizer and Instructor, *Cornell University*

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## SERVICE & PROFESSIONAL MEMBERSHIPS

### Reviewer

PLOS ONE, Progress in Neuropsychopharmacology and Biological Psychiatry, Frontiers in Neurorobotics, NeuroImage, Cognitive Science

### Committees, Organizations, Etc.

Women in Network Science

Chair of Graduate Students Committee 3.2021 - present

Member 2020 – present

Graduate Student Coalition (*Indiana University*)

Member 2020 - present

Methods in Network Science Workshop Series

Workshop organizer 6.2021 – present

Speaker 10.2021

Organization for Human Brain Mapping

Member 2022 - present

The Social and Affective Neuroscience Society

Member 2021 - present

Cognitive Science PhD Orientation (*Indiana University*)

Panelist 2021, 2023

Luddy Associate Instructor Orientation (*Indiana University*)

Panelist, Facilitator 2023

Midwest Undergraduate Cognitive Science Conference

Panelist, Judge 2023

Graduate Admissions Committee in Cognitive Science (*Indiana University*)

Member 2021 - 2022

QGrads (*Cornell University*)

Member 9.2018 – 8.2020

Graduate Women in STEM (*Cornell University*)

Member 9.2018 – 8.2020

IU Journal of Undergraduate Research

Writer & Board Member, Online Creative Content Board 9.2017 – 5.2018

Assistant Student Editor, Board of Social Sciences 8.2015 – 5.2016

Student Organization of Cognitive Science (*Indiana University*)

Member 8.2017 – 5.2018

UnderLings: Undergraduate Linguistics Club (*Indiana University*)

(Founding) Member 8.2013 – 5.2018

President 4.2015 – 4.2016

Vice President 12.2014 – 4.2015

Indiana University Turkish Language Flagship Program

Student member 1.2014 – 5.2018

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## ACADEMIC DEVELOPMENT & COMMUNITY

Computational and Network Neuroscience

Fall 2022 – present

Reading group, <i>Indiana University</i>	
Autopoietic and Dynamical Theories of Cognition	<i>Spring 2021 – present</i>
Reading group, <i>Indiana University</i>	
Empirical Phenomenology	<i>Fall 2023</i>
Reading group, <i>Indiana University</i>	
Complex Networks	<i>Spring 2021 – Spring 2023</i>
Reading group, <i>Indiana University</i>	
Integrative Neuroscience Salon	<i>Spring 2019 – Spring 2020</i>
Academic Salon, <i>Cornell University</i>	
Introduction to Complexity	<i>6.2019 – 9.2019</i>
Online course, <i>Santa Fe Institute</i>	
Neuroecology	<i>Summer 2019</i>
Journal Club, <i>Cornell University</i>	
Mathematical Tools for Cognitive and Neural Science	<i>1.2019 – 8.2019</i>
Online course, <i>New York University</i>	
Philosophy of Neuroscience	<i>Fall 2018</i>
Reading group, <i>Cornell University</i>	

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## REFERENCES

- Richard F. Betzel, PhD [rbetzel@indiana.edu](mailto:rbetzel@indiana.edu)  
Associate Professor, *Indiana University*  
*Department of Psychological & Brain Sciences, Program in Cognitive Science*  
(current PhD advisor)
- Olaf Sporns, PhD [osporns@indiana.edu](mailto:osporns@indiana.edu)  
Distinguished Professor, *Indiana University*  
*Departments of Psychological & Brain Sciences and Informatics, Program in Cognitive Science*  
(current PhD committee member)
- Randall D. Beer, PhD [rdbeer@indiana.edu](mailto:rdbeer@indiana.edu)  
Provost Professor, *Indiana University*  
*Program in Cognitive Science, Departments of Computer Science and Informatics*  
(current PhD committee member)
- Eduardo J. Izquierdo, PhD [izquierd@rose-hulman.edu](mailto:izquierd@rose-hulman.edu)  
Assistant Professor, *Rose Hulman Institute of Technology*  
*Department of Computer Science*  
(former teaching supervisor, PhD committee member)
- Marlen Z. Gonzalez, PhD [mzg5@cornell.edu](mailto:mzg5@cornell.edu)  
Assistant Professor, *Cornell University*  
*Department of Psychology*  
(former supervisor)