

MIRIAM E. SCHWYCK, PH.D.

Previously Miriam E. Weaverdyck
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ACADEMIC APPOINTMENTS

2023–Present Postdoctoral Scholar, Columbia University, NY
Advisor: Meghan Meyer, Ph.D.

EDUCATION

2023 Ph.D., Psychology, University of California, Los Angeles, CA
Advisor: Carolyn Parkinson, Ph.D.

2018 M.A., Psychology, University of California, Los Angeles, CA
Advisors: Carolyn Parkinson, Ph.D.; Matthew Lieberman, Ph.D.

2013 B.A., Psychology, Mathematical Sciences, Bethel College, KS
Advisors: Dwight Krehbiel, Ph.D.; Lisa Thimm, Ph.D.
Honors: *Summa Cum Laude*

FELLOWSHIPS, HONORS, AND AWARDS

2023 Shelley E. Taylor Dissertation Award, *UCLA*

2022 Dissertation Year Fellowship, *UCLA*

2022 Graduate Travel Award, *Society for Personality and Social Psychology*

2021 Poster Award, *Social & Affective Neuroscience*

2020 Graduate Research Fellowship, *NSF*

2019 Graduate Research Mentorship Fellowship, *UCLA*

2019 Fellow, *Kavli Summer Institute in Cognitive Neuroscience*

2019 Fellow, *NIA Summer School in Social Neuroscience & Neuroeconomics*

2019 Harold H. Kelley Award: Best Basic Research Paper, *UCLA Social Psychology*

2019 Travel Grant, *International Convention of Psychological Science*

2019 Poster Award, *Social & Affective Neuroscience*

2018 Fellow, *São Paulo School of Advanced Sciences on Social and Affective Neuroscience*

2018 Graduate Summer Research Mentorship Fellowship, *UCLA*

2017 Graduate Dean's Scholar Award, *UCLA*

2009–2013 *Bethel College*
Academic Thresher Scholarship, STEM Scholarship, Music Scholarship,
Music Scholar Award, Art Scholarship, Dean's List

PUBLICATIONS

Please note that prior to 2021, I published and presented under the name Miriam E. Weaverdyck

*Denotes equal contributions

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Google Scholar Profile: <https://scholar.google.com/citations?user=8dxN6C8AAAAJ>

UNDER REVIEW

Schwyck, M.E., Du, M., & Parkinson, C. (in revision). The role of one's own social network position in learning new networks: Brokerage is associated with better network learning. *Journal of Experimental Psychology: General*. [OSF Preprint](#)

Schwyck, M.E. & Parkinson, C. (under review). Predicting that birds of a feather will flock together: Expectations of homophily for others but not the self. [OSF Preprint](#)

PUBLISHED

Schwyck, M.E., Du, M., Natarajan, P., Chwe, J.A., & Parkinson, C. (2023). Neural encoding of novel social networks: Evidence that perceivers prioritize others' centrality. *Social Cognitive and Affective Neuroscience*, 18(1) 1-9. [PDF](#)

Schwyck, M.E.*, Du, M.*, Li, Y., Chang, L., & Parkinson, C. (2023). Similarity among friends serves as a social prior: The assumption that "Birds of a feather flock together" shapes social decisions and relationship beliefs. *Personality and Social Psychology Bulletin*, 50(6). [PDF](#) [OSF](#)

Sahi, R.S.*, **Schwyck, M.E.***, Parkinson, C., & Eisenberger, N.I. (2021). Having more virtual interaction partners during COVID-19 physical distancing measures may benefit mental health. *Scientific Reports*. 11(18273) [PDF](#) [OSF](#)

Weaverdyck, M.E., Thornton, M.A., & Tamir, D.I. (2021). The representational structure of mental states generalizes across target people and stimulus modalities. *NeuroImage*, 238(118258) 1-9. [PDF](#) [OSF](#)

Weaverdyck, M.E., Lieberman, M.D., & Parkinson, C. (2020). Multivoxel pattern analysis in fMRI: A practical introduction for social and affective neuroscientists. *Social Cognitive and Affective Neuroscience*, 15(4) 487-509. [PDF](#)

Thornton, M.A., **Weaverdyck, M.E.**, & Tamir, D.I. (2019). The brain represents people as the mental states they habitually experience. *Nature Communications*, 10(2291) 1-10. [PDF](#) [OSF](#)

Thornton, M.A., **Weaverdyck, M.E.**, Mildner, J.N., & Tamir, D.I. (2019). People represent their own mental states more distinctly than others'. *Nature Communications*, 10(2117) 1-9. [PDF](#) [OSF](#)

Thornton, M.A., **Weaverdyck, M.E.**, & Tamir, D.I. (2019). The social brain automatically predicts others' future mental states. *Journal of Neuroscience*, 39(1) 140-148. [PDF](#) [OSF](#)

Weaverdyck, M.E., & Parkinson, C. (2018). The neural representation of social networks. *Current Opinion in Psychology*, 24, 58-66. [PDF](#)
- UCLA Harold H. Kelley Award: Best Basic Research Paper

Jones, M.A., Shelton, B.C., & **Weaverdyck, M.E.** (2014). On God's Number(s) for Rubik's Slide. *The College Mathematics Journal*, 45(4), 267-275. [PDF](#)

Anderson, A.L.*, **Weaverdyck, M.E.***, & Krehbiel, D. (2011, March). *Discovering GEMS in music: Armonique digs for music you like*. Paper presented at the National Conference for Undergraduate Research, Ithaca College, NY. [PDF](#)

IN PREPARATION

Schwyck, M.E.*, Guassi Moreira, J.F.*, & Parkinson, C. (in prep). Do different aspects of social distance differentially predict social behavior?

Schwyck, M.E., Kim, J., Chey, J., Zerubavel, N., Bearman, P., Youm, Y. Parkinson, C. (in prep). Contention in real-world social networks: Examining the neural and behavioral correlates of structural equivalence.

PRESENTATIONS

*Denotes multiple presenters

TALKS

Schwyck, M.E. (2024) *Tracking Our Social Worlds*. Social and Affective Processes Seminar, Columbia University, New York, NY.

Schwyck, M.E., Du, M., & Parkinson, C. (2024) *Tracking relationships: Uncovering how people acquire and neurally encode others' social networks*. International Network for Social Network Analysis SunBelt Conference, Edinburgh, Scotland.

Schwyck, M.E., Du, M., & Parkinson, C. (2024) *The role of one's own social network position in learning new networks: Brokerage is associated with better network learning*. Social and Affective Neuroscience Conference, Toronto, ON, Canada.

Schwyck, M.E. (2023) *Tracking relationships: Uncovering how people acquire, represent, use, and predict social network information*. Social Connection Lab Meeting, PI Elisa Baek, University of Southern California, Los Angeles, CA.

Schwyck, M.E., Kim, J., Chey, J., Zerubavel, N., Bearman, P., Youm, Y., & Parkinson, C. (2023) *Contention in real-world social networks: Examining the neural and behavioral correlates of structural equivalence*. Social and Affective Neuroscience Conference, Santa Barbara, CA.

Schwyck, M.E. (2023) *Introduction to fMRIPrep*. Lab Meeting, PI Yoosik Youm, Yonsei University, Seoul, South Korea.

Weaverdyck, M.E., Thornton, M.A., & Tamir, D.I. (2016). *Mental state space expands for self and contracts for others*. New York Social & Affective Neuroscience Meet-Up, Manhattan, NY.

Weaverdyck, M.E., Jones, M.A., & Shelton, B.C. (2013). *Finding God's Number(s) for the Rubik's Slide puzzle: An algebraic graph-theoretic analysis*. Undergraduate Research, Internship and Creative Activity Symposium, North Newton, KS.

Weaverdyck, M.E., Gongora, T., & Unruh, N. (2013). *Positive and negative appraisal: How feedback affects attitudes and performance in math*. Undergraduate Research, Internship and Creative Activity Symposium, North Newton, KS.

Weaverdyck, M.E., Jones, M.A., & Shelton, B.C. (2012). *On God's Number(s) for Rubik's Slide*. Mathematical Association of America MathFest Conference, Madison, WI.

POSTERS

Basyouni, R., **Schwyck, M.E.,** Du, M., & Parkinson, C. (2024). *Tracking and applying knowledge of centrality in social networks*. Social and Affective Neuroscience Conference, Toronto, ON, Canada.

Guassi Moreira, J.F., **Schwyck, M.E.,** & Parkinson, C. (2024) *What drives the link between psychological distance and social behavior?* Society for Affective Science Conference, New Orleans, LA

Schwyck, M.E. & Parkinson, C. (2024). *Assumptions of homophily shape social decisions and relationship beliefs*. Society for Personality and Social Psychology Conference, San Diego, CA.

Schwyck, M.E., Du, M., & Parkinson, C. (2022). *Learning the structure of social worlds: Brokerage affects one's ability to learn new social networks*. Society for Personality and Social Psychology Convention, San Francisco, CA.

Weaverdyck, M.E., Du, M., Natarajan, P., Chwe, J.A., & Parkinson, C. (2021). *Neural encoding of new social network structures*. Social and Affective Neuroscience Conference, Virtual.

- Weaverdyck, M.E.,** Du, M., Natarajan, P., Chwe, J.A., & Parkinson, C. (2019). *Contextual goals shape the neural representation of social networks*. UCLA Brain Research Institute's Neuroscience Poster Session, Los Angeles, CA.
- Weaverdyck, M.E.,** Du, M., Natarajan, P., Chwe, J.A., & Parkinson, C. (2019). *Contextual goals shape the neural representation of social networks*. Social and Affective Neuroscience Conference, Miami, FL.
- Weaverdyck, M.E.,** Du, M., Li, Y., Chang, L., & Parkinson, C. (2019). *Social network knowledge shapes trust behavior*. International Convention of Psychological Science, Paris, FR.
- Weaverdyck, M.E.,** Du, M., Li, Y., Chang, L., & Parkinson, C. (2019). *Social network knowledge shapes and is shaped by trust behavior*. Society for Personality and Social Psychology Conference, Portland, OR.
- Weaverdyck, M.E.,** Thornton, M.A., & Tamir, D.I. (2018). *Representational similarity analyses reveal stable mental state concepts for self and others*. São Paulo School of Advanced Sciences on Social and Affective Neuroscience, São Paulo, BR.
- Weaverdyck, M.E.,** Thornton, M.A., & Tamir, D.I. (2018). *Neural representations of mental states remain stable across modalities and targets*. Social and Affective Neuroscience Conference, Brooklyn, NY.
- Weaverdyck, M.E.,** Thornton, M.A., & Tamir, D.I. (2017). *Representational similarity analyses reveal stable mental state concepts for self and others*. Social and Affective Neuroscience Conference, Los Angeles, CA.
- Weaverdyck, M.E.,** Thornton, M.A., & Tamir, D.I. (2017). *Representational similarity analyses reveal stable mental state concepts for self and others*. Society for Personality and Social Psychology Conference, San Antonio, TX.
- Weaverdyck, M.E.*,** Anderson, A.L.*, & Krehbiel, D. (2011). *Discovering GEMS in music: Armonique digs for music you like*. Undergraduate Research, Internship and Creative Activity Symposium, North Newton, KS.
- Anderson, A.L.*, **Weaverdyck, M.E.*,** & Krehbiel, D. (2011). *Discovering GEMS in music: Armonique digs for music you like*. National Conference for Undergraduate Research, Ithaca, NY.
- Weaverdyck, M.E.*,** Anderson, A.L.*, & Krehbiel, D. (2010). *Does liking predict emotional and physiological responses to music*. Undergraduate Research, Internship and Creative Activity Symposium, North Newton, KS.

RESEARCH EXPERIENCE

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|--------------|---|
| 2023–Present | Postdoctoral Scholar, Columbia University
New York, NY
Columbia Social Neuroscience Lab, PI: Meghan Meyer, Ph.D. |
| 2017–2023 | Graduate Student Researcher, University of California, Los Angeles
Los Angeles, CA
Computational Social Neuroscience Lab, PI: Carolyn Parkinson, Ph.D. |
| 2015–2017 | Research Specialist, Princeton University
Princeton, NJ
Princeton Social Neuroscience Lab, PI: Diana I. Tamir, Ph.D. |

- 2014–2015 **Lab Coordinator, Rutgers University**
 New Brunswick, NJ
 Rutgers Lab for Developmental Language Studies, PI: Kristen Syrett, Ph.D.
- 2009–2013 **Undergraduate Student Researcher, Bethel College**
 North Newton, KS
 PI: Dwight Krehbiel, Ph.D.

TRAINING AND PROFESSIONAL DEVELOPMENT

- 2022 New England Future Faculty Workshop, Northeastern University, Boston, MA
- 2020 Neuromatch Academy: Interactive Track, Course Project
- 2019 Kavli Summer Institute in Cognitive Neuroscience, University of California,
 Santa Barbara, Santa Barbara, CA
- 2019 Summer School in Social Neuroscience & Neuroeconomics, Duke University,
 Durham, NC
- 2018 São Paulo School of Advanced Sciences on Social and Affective Neuroscience,
 Mackenzie Presbyterian University, São Paulo, BR
- 2018 Machine Learning with Python, Quantitative and Computational Biology Collaboratory,
 University of California, Los Angeles, Los Angeles, CA

TEACHING EXPERIENCE

Guest Lecturer, Columbia University, New York, NY

- Fall 2024 Current Topics in Cognitive Neuroscience (Graduate course)
Social Cognition

Guest Lecturer, University of California, Los Angeles, Los Angeles, CA

- Spring 2022 Psych 236 Methods in Social and Affective Neuroscience (Graduate course)
Introduction to MVPA
- Fall 2021 Psych 137I Social Influence (Undergraduate course)
Neural Processes of Persuasion & Influence
- Winter 2021 Psych 135 Social Psychology (Undergraduate course)
Introduction to Social Neuroscience

Teaching Assistant, University of California, Los Angeles, Los Angeles, CA

- Spring 2020 Psych 85 Introduction to Cognitive Science (Undergraduate course)
- Spring 2018 Psych 10 Introductory Psychology (Undergraduate course)

Graduate Student Instructor, University of Michigan, Ann Arbor, MI

- Summer 2017 Michigan Math and Science Scholars (Highschool course)
Mathematics of Decisions, Elections, and Games
- Summer 2018 Michigan Math and Science Scholars (Highschool course)
Mathematics of Decisions, Elections, and Games

Academic Tutor, Bethel College, North Newton, KS

- 2010–2013 Center for Academic Development (Undergraduate students)

Undergraduate Student Instructor, University of Michigan, Ann Arbor, MI

- Summer 2012 Michigan Math and Science Scholars (Highschool course)
Mathematics of Decisions, Elections, and Games

OPEN SCIENCE

GitHub profile: <https://github.com/mweaverdyck>

Also see lab repositories: github.com/Dartmouth-Social-Neuroscience-Lab, github.com/CSNLab, github.com/PrincetonUniversity/prsonpipe

Open Science Framework profile: <https://osf.io/7kc49/>

SERVICE

DEPARTMENTAL AND UNIVERSITY SERVICE

University of California, Los Angeles, Los Angeles, CA

- 2017–2022 Underrepresented Graduate Students in Psychology
Transfer Outreach Committee, Brownbag Committee
- Winter 2021 Inclusivity Lab Meeting (organizer, discussion leader)
A conversation on creating supportive and inclusive communities within academia
- 2020–2021 Social Colloquium Representative
- Spring 2021 How to Maximize Your Summer Workshop
- Winter 2020 Ask a Graduate Student Panel
- Winter 2020 Applying to Undergraduate Research Programs Workshop
- Fall 2019 Maximizing Your Transfer Experience Networking Workshop
- 2018–2019 Queers in STEM Mentor
- 2017–2018 Advancing Women in Science and Engineering
- Fall 2018 Success in the Life Sciences Workshop

COMMUNITY SERVICE

- 2018–Present Reviewer
Social Cognitive and Affective Neuroscience, Social Neuroscience, Nature Neuroscience, Psychonomic Bulletin & Review
- 2018 Conference Volunteer
Society for Affective Science Conference
- 2013–2014 Pro Bono Legal and Administrative Assistant
Mennonite Voluntary Service
Immigration Legal Services Pro Bono Program, Catholic Charities, Washington, DC

TECHNICAL SKILLS

<i>Programming Languages</i>	<i>Analyses</i>	<i>Platforms, Equipment</i>
<ul style="list-style-type: none">▪ Python, Psychopy▪ R▪ Bash▪ jsPsych▪ FSL▪ LaTeX	<ul style="list-style-type: none">▪ Multivoxel Pattern Analysis, Representational Similarity Analysis▪ Machine learning▪ Eyetracking▪ Designed and programmed custom modular fMRI analysis pipelines	<ul style="list-style-type: none">▪ GitHub▪ Pavlovia▪ Prolific▪ MTurk▪ Qualtrics▪ fMRI

PROFESSIONAL REFERENCES

Meghan Meyer, Ph.D.

Assistant Professor, Columbia University

Postdoc Advisor

mlm2378@columbia.edu

Carolyn Parkinson, Ph.D.

Associate Professor, University of California, Los Angeles

Ph.D. and M.A. Advisor, Dissertation Committee Chair

cparkinson@ucla.edu

Matthew Lieberman, Ph.D.

Professor, University of California, Los Angeles

Secondary M.A. Advisor, Dissertation Committee Member

mdlieber99@gmail.com