

# Kaitlyn Mundy

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## Education

### Brown University

Sept. 2019 - May 2023

*Cognitive Neuroscience Sc. B, Magna Cum Laude with Honors*

*Providence, Rhode Island*

- GPA: 3.91; Major GPA: 4.0
  - Honors Thesis: *Learning Valenced Motivational Incentives and their Effect on Cognitive Effort*
  - Relevant Coursework: Social Psychology; Computational Cognitive Neuroscience; Affective Neuroscience; Machine Learning; Statistical Inference I; Linear Algebra; Deep Learning in Brains, Minds, and Machines; Neural Systems
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## Relevant Experience

### Columbia Social Neuroscience Lab, Columbia University

PI: Meghan Meyer

Sept. 2023 - Present

*Lab Manager / Staff Research Assistant*

*New York, NY*

- Create and maintain IRB documents.
- Draft papers for journal submission.
- Perform data analysis in R and Python, including natural language processing, representational similarity analysis, and social network analysis.
- Assist with fMRI data collection, processing, and analysis.
- Collaboratively construct, maintain, and document project and data pipelines and protocols.
- Recruit and manage undergraduate (paid, SONA) and general population participants.
- Manage and mentor undergraduate research assistants.
- Provide administrative and technical support for all lab members.

### Shenhav Lab, Brown University

PI: Amitai Shenhav

Jan. 2021 - May 2023

*Undergraduate Research Assistant*

*Providence, RI*

- Design and program online experiments.
- Collect online data via Prolific and Qualtrics.
- Perform data-cleaning, statistical analysis, and data visualization in R and MatLab.
- Recruit and run participants through experimental tasks (behavioral, fMRI).
- Present at conferences and in lab meetings.
- Pilot experimental tasks, testing for code functionality and editing for instruction clarity.
- Contribute to weekly journal club meetings and discussions of peer-reviewed articles.

### Triple Helix Scientific Magazine

Jan. 2020 - Dec. 2021

*Writer & Editor*

*Providence, RI*

- Draft review articles synthesizing research findings from various fields (e.g. neuroscience, psychology, environmental science) and communicating them to a broader audience.
- Write opinion pieces on societal issues with arguments supported by scientific findings
- Attend weekly meetings for story pitches, research discussions, and writing workshops.
- Edit articles for clarity and content.

## Honors and Awards

### Honors Premium for Excellence in Cognitive Neuroscience

2023

Awarded to outstanding Cognitive Neuroscience undergraduate honors theses

### Undergraduate Teaching and Research Award

Summer 2021

Undergraduate grant to fund a summer research project in collaboration with a faculty member

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## Manuscripts in Preparation (\*denotes shared first authorship)

**Mundy, K.\***, Broom, T.\*, Iyer, S., Meyer, M. *Synchrony between social evaluation and self-reflection neural patterns during post-evaluation rest predicts internalizing what others think of us.*

Yee, D.M., Prater Fahey, M., Leng, X., Tarlow, M., Kim, J., **Mundy, K.**, Nevin, S., Shenhav, A. *Associations between socioeconomic status and positive vs. negative motivational influences on mental effort allocation.*

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## Conference Presentations

Yee, D.M., Prater Fahey, M., Leng, X., Tarlow, M., Kim, J., **Mundy, K.**, Nevins, S., Shenhav, A. *Decomposing the neurocomputational mechanisms of reward and aversive motivation on mental effort allocation.* Society for Neuroscience Meeting. (Washington D.C., November 2023).

**Mundy, K.**, Yee., D.M., Leng, X., Prater Fahey, M., Shenhav, A. *Age-Related Differences in the Influence of Positive and Negative Incentives on Mental Effort.* Society for Affective Science. (Virtual, April 2022).

**Mundy, K.**, Yee., D.M., Leng, X., Prater Fahey, M., Shenhav, A. *Age-Related Differences in the Influence of Positive and Negative Incentives on Mental Effort.* Harvard Women in Psychology Trends in Psychology Summit. (Virtual, November 2021).

**Mundy, K.**, Yee., D.M., Leng, X., Prater Fahey, M., Shenhav, A. *Age-Related Differences in the Influence of Positive and Negative Incentives on Mental Effort.* Brown University Undergraduate Teaching and Research Award Symposium. (Virtual, August 2021).

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## Conference Papers

Yee, D.M., Prater Fahey, M., Leng, X., Cheng, Z., Tarlow, M., Kim., J., **Mundy, K.**, Nevins, S., Shenhav, A. *Neurocomputational mechanisms of motivational influences on mental effort.* Computational Cognitive Neuroscience. (Cambridge, MA, August 2024).

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## Professional Development

### Natural Language Processing for the Social Sciences

*Summer Session Course (Audited, unofficial)*

**July - August 2024**

*Columbia University, New York, NY*

### Human-Computer Interaction

*Spring Semester Course (Audited, unofficial)*

**January - April 2024**

*Columbia University, New York, NY*

### CCV Research Computing Bootcamp

*Center for Computation and Visualization*

**June 2022**

*Brown University, Providence, RI*

### Carney Computational Modeling Workshop

*Carney Institute for Brain Science*

**August 2021**

*Brown University, Providence, RI*

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## Leadership

### King House Literary Society

*Undergraduate Literary Program House*

**May 2020 - May 2023**

*Brown University, Providence, RI*

Co-Director of Community Values

Jan. 2023 - May 2023

Recruitment Committee Member

Jan. 2023 - May 2023

Diversity and Inclusivity Chair

Sept. 2022 - Dec. 2022

President

Sept. 2021 - Dec. 2021

- Planning and hosting weekly meetings and community events.
- Organizing and holding elections.
- Revising existing bylaws and drafting new addendums.
- Mediating conflict between members.
- Coordinating the development of COVID-conscious community rules and guidelines.

### Matched Advising Program for Sophomores

*Junior-Sophomore Peer Mentorship Program*

*Brown University, Providence RI*

Mentor

Sept. 2021 - May 2022

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## Certifications

### CITI Program

- Social-Behavioral-Educational Researchers and Key Personnel
- Responsible Conduct of Research

### Neuroimaging

- Trained as primary researcher for fMRI studies (Siemens 3T MRI Scanner)
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## Technical Skills

**Programming Languages:** Python, R, MATLAB, Javascript, Java, Bash

**Software:** PsychoPy, GitHub, Qualtrics, Jupyter Notebook, Google CoLab, Visual Studio Code, RStudio, Flywheel, XNAT, OverLeaf, Adobe Illustrator, Canva

**Human Subject Recruitment Platforms:** Prolific, SONA, RecruitMe (Columbia University platform for general population recruitment)

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## Other

**Natural Languages:** English (Native), Mandarin (Conversational), Arabic (Basic)

**Hobbies:** Drawing, hiking, writing, crossword puzzles, ukulele