

HAYLEY R. BROOKS, Ph.D.

Postdoctoral Research Associate

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Academic Appointments

2023- // Postdoctoral Research Associate (PI: Amitai Shenhav)
Department of Cognitive, Linguistic, and Psychological Sciences at Brown University

Education

2023 // Ph.D. in Psychology, University of Denver (Advisor: Peter Sokol-Hessner)

2019 // M.A. in Psychology, University of Denver (Advisor: Peter Sokol-Hessner)

2016 // M.A. in Psychology, New York University (Advisor: David J. Heeger)

2013 // B.S. in Psychology, Colorado State University (University Honors Scholar)

Honors, Awards, Scholarships

2023 // Outstanding Service Award, Department of Psychology, University of Denver

2022 // Dean's Dissertation Fellowship, College of Arts, Humanities & Social Sciences,
University of Denver (\$22,000)

2022 // Student Research Award, College of Arts, Humanities & Social Sciences,
University of Denver (\$1,250)

2021 // Career Transition Award, Scientific Research Network on Decision Neuroscience and
Aging (\$4,500)

2020 // Outstanding Service Award, Department of Psychology, University of Denver

2020 // Outstanding Teaching Award, Department of Psychology, University of Denver

2019 // Lawrence Miller Fellowship, Department of Psychology, University of Denver (\$1,500)

2019 // NYU Shanghai Neuroeconomics Summer School Financial Award (\$1,000)

2019 // Outstanding Service Award, Department of Psychology, University of Denver

2019 // Outstanding Teaching Award, Department of Psychology, University of Denver

2018 // Outstanding Service Award, Department of Psychology, University of Denver

2016 // MA Scholar, Department of Psychology, New York University

2015 // MA Scholar, Department of Psychology, New York University

2013 // University Honors Scholar, University Honors Program, Colorado State University

2009 // Presidential Scholarship (\$36,000), Colorado State University

2009 // University Honors Scholarship (\$8,000), Colorado State University

Publications

1. **Brooks, HR** & Sokol-Hessner, P. (under review) Cognitive strategy use selectively changes temporal context effects in risky monetary decision-making
2. **Brooks, HR** & Sokol-Hessner, P. (2024). Multiple timescales of temporal context in risky choice: Behavioral Identification and relationships to physiological arousal. *PLoS One*.
3. Louie, K, **Brooks HR**, Sokol-Hessner, P. (2021). Biological constraints on interpretable theories of human decision-making. *Science eLetters*.
4. **Brooks, HR** & Sokol-Hessner, P. (2020) Quantifying the immediate computational effects of preceding outcomes on subsequent risky choices. *Scientific Reports*.
5. Botvinik-Nezer, R, ... , **Brooks, HR**, Erhart, A, Sokol-Hessner, P, ... Poldrack, R, Schonberg, T. (2020) Variability in the analysis of a single neuroimaging dataset by many groups, *Nature*.

Papers in progress

1. **Brooks, HR** & Sokol-Hessner, P. *Neural mechanisms underlying context effects in risky monetary decision-making*.
2. Chiew, KS, Sokol-Hessner, P, **Brooks, HR**, Pan, CX. *Cognition and affect during the COVID-19 pandemic*.
3. Rini, A., Monteza, JV, **Brooks, HR**, Sokol-Hessner, P. *The intersection of choice difficulty and cognitive control in risky monetary decision-making*.
4. **Brooks, HR** & Rutledge R. *Temporal context in risk-taking and affective experiences across the lifespan in 47,067 users of the app, the Great Brain Experiment*.

Presentations

2023 // Society for Affective Science (poster)

Be Present: Cognitive strategy use selectively changes temporal context effects in risky monetary decision-making

2022 // Rutgers-Princeton Center for Computational Cognitive Neuro-Psychiatry (invited talk)

Temporal context effects in risky monetary decision-making

2022 // Emerging Scholars of Psychology Science, Princeton University (invited talk)

Temporal context effects in risky monetary decision-making

2022 // Frontiers in Research: Developmental Cognitive Neuroscience, University of Denver (talk)

The evolution of perceived Covid-19 pandemic risk and risky monetary decision-making

Presentations (cont)

- 2020 // Affective, Social & Cognitive Psychology Brownbag, University of Denver (talk)
Cognition and affect during the COVID-19 pandemic
- 2019 // Neuroeconomics Summer School, NYU Shanghai (poster)
Past outcomes reliably influence risky monetary choices
- 2019 // Affective, Social & Cognitive Psychology Brownbag, University of Denver (talk)
How affect relates to temporal context in risk-taking
- 2019 // Frontiers in Research: Developmental Cognitive Neuroscience, University of Denver (talk)
Context and emotion influence the risks we take
- 2018 // Society for Neuroeconomics (poster)
Sweat the context: How affect relates to contextual influences on risky decision-making
- 2018 // Society for Affective Science (poster)
Recent events influence risky decision-making
- 2018 // Affective, Social & Cognitive Psychology Brownbag, University of Denver (talk)
Value in context: A computational approach to risky decision-making
- 2016 // Master's Thesis Poster Conference, New York University (poster)
Understanding food preferences and sleep patterns in children with ASD

Teaching & Guest Lectures

University of Denver

- 2020 // Introduction to Cognitive Neuroscience, Teaching Assistant to Kimberly Chiew
- 2020 // Introduction to Cognitive Neuroscience, Guest Lecture
- 2020 // Introduction to Cognitive Neuroscience, Teaching Assistant to Peter Sokol-Hessner
- 2020 // Introduction to Cognitive Neuroscience, Guest Lecture
- 2019 // Foundations of Psychological Science, Teaching Assistant to Rob Roberts
- 2019 // Foundations of Psychological Science, Guest Lecture
- 2018 // Social Psychology, Teaching Assistant to Pamela Miller
- 2018 // Social Psychology, Guest Lecture
- 2018 // Introduction to Cognitive Neuroscience, Teaching Assistant to Kimberly Chiew
- 2018 // Introduction to Cognitive Neuroscience, Guest Lecture

Colorado State University

- 2013 // Controversial Issues in Psychology, Supervising Teaching Assistant
- 2012 // Controversial Issues in Psychology, Teaching Assistant to Karla Gingerich
- 2011-13 // First-year seminar, University Honors Program, Co-teacher

Summer Schools & Workshops

2023 // Carney Center for Computational Brain Science, Computational Modeling Workshop, Brown University

2019 // Summer School of Social Neuroscience and Neuroeconomics, Duke University

2019 // Neuroeconomics Summer School, NYU Shanghai

Mentorship

2021-2023 // Anna Rini, Undergraduate Honors Student, University of Denver

2019-2021 // Simon Haats, Undergraduate Honors Student, University of Denver

2018-2020 // Taylor Dobyngs, Undergraduate Student, University of Denver

2014-2016 // Meg Guard, Postbaccalaureate Pre-Health Student, New York University

2013-2017 // Alexander Nguyen, Undergraduate Student, New York University

2013-2017 // Saurab Faruque, Undergraduate Student, New York University

Pre-Doctoral Research Experience

2017 // *Research Assistant* (PI: Peter Sokol-Hessner), University of Denver

2015-19 // *Junior Research Scientist* (PI: David J. Heeger), New York University

2015 // *Coding extern* (PIs: Richard Heyman, Amy Smith Slep, New York University)

2013 // *Senior Honors Thesis* (Advisor: Tracy Richards), Colorado State University

2012 // *Research Assistant* (PI: Alyssa Gibbons), Colorado State University

2011 // *Research Assistant* (PI: Benjamin Clegg), Colorado State University

Service

2021- // Director of Editor Group, Application Statement Feedback Program

2021-22 // Graduate Student Faculty Representative, University of Denver

2020- // Core Team, Application Statement Feedback Program

2020- // Editor, Application Statement Feedback Program

2019-20 // Member, Inclusive Excellence Student Committee, University of Denver

2018-20 // Co-leader, Diversity, Inclusion & Civic Engagement Student Group, University of Denver

2017-18 // Co-leader, Graduate Student Recruitment, University of Denver

Membership

Society for Neuroeconomics

American Psychological Association

Society for Affective Science

Skills & Tools

R, Matlab, Python, PsychoPy, Maximum likelihood

estimation, Bayesian Hierarchical Estimation, Bash, Git,

FSL, SPM, fMRIprep, MRIQC, Slack, Singularity