

Brenden Eum

PHD STUDENT · SOCIAL & DECISION NEUROSCIENCE

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Education

California Institute of Technology

PHD SOCIAL & DECISION NEUROSCIENCE

- Advisor: Prof. Antonio Rangel

Pasadena, CA

2019 - 2024 (expected)

Columbia University

MA ECONOMICS

- Advisor: Prof. Brendan O'Flaherty

New York, New York

2016 - 2017

New York University

BA ECONOMICS, MAGNA CUM LAUDE

- Minor in Mathematics

New York, New York

2014 - 2016

Awards, Fellowships, & Grants

2022	Chen Graduate Innovator Grant , T&C Chen Center for Social & Decision Neuroscience	\$ 10,000
2021	Brass Division Teaching Award , Humanities and Social Sciences, Caltech	\$ 1,500
2019	Chen Graduate Fellowship , T&C Chen Center for Social & Decision Neuroscience	\$ 95,700
2017-2019	Predoctoral Fellowship , Joint Micro- & Macroeconomics, Columbia Business School	\$ 105,400
2016	NYU Founder's Day Scholar Award , New York University	
2014	Parliamentary Debate Gold Medalist , Pacific Southwest Collegiate Forensics Tournament	

Publications

IN REVIEW

Eum, B., Dolbier, S., & Rangel, A. (2022). "Peripheral visual information halves attentional choice biases." (*R&R Psychological Science*)

WORK IN PROGRESS

Manipulation of signal weights in the Bayesian efficient coding hypothesis (with Antonio Rangel & Michael Woodford)

Value signals in the orbitofrontal cortex incorporate reference-dependent surprise utility (with Zeynep Enkavi, John O'Doherty, and Antonio Rangel)

Attentional biases in gains, attentional anomalies in losses (with Stephen Gonzalez & Antonio Rangel)

SELECTED PROJECTS I PROVIDED RESEARCH ASSISTANCE FOR

Backus, M., Blake, T., Larsen, B., & Tadelis, S. (2020). Sequential Bargaining in the Field: Evidence from Millions of Online Bargaining Interactions. *The Quarterly Journal of Economics*.

Backus, M., Blake, T., & Tadelis, S. (2019). On the Empirical Content of Cheap-Talk Signaling: An Application to Bargaining. *Journal of Political Economy*.

Backus, M. & Little A. T. (2020). I Don't Know. *American Political Science Review*.

Sicherman, N., Charite, J., Eyal, G., Janecka, M., Loewenstein, G., Law, K., Lipkin, PH., Marvin, AR., Buxbaum, JD. (2021). Clinical signs associated with earlier diagnosis of children with autism Spectrum disorder. *BMC Pediatrics*.

Presentations

INVITED TALKS

- Eum, B.**, Enkavi, Z., O'Doherty, J., & Rangel, A. "Value signals in the orbitofrontal cortex incorporate reference-dependent news utility" 2023. Caltech Brain Imaging Center, California Institute of Technology.
- Eum, B.**, Enkavi, Z., O'Doherty, J., & Rangel, A. "Value signals in the orbitofrontal cortex incorporate reference-dependent news utility" 2023. Chen Institute Symposium, California Institute of Technology.
- Eum, B.**, Dolbier, S., & Rangel, A. "Peripheral visual information halves attentional choice biases" 2022. Computational Cognitive Neuroscience Lab, University of California, Irvine.

POSTERS

- Eum, B.**, Dolbier, S., & Rangel, A. "Peripheral visual information halves attentional choice biases" 2022. Society for Judgment and Decision Making, San Diego, California.
- Eum, B.**, Dolbier, S., & Rangel, A. "Peripheral visual information halves attentional choice biases" 2022. Society for Neuroeconomics, Arlington, Virginia.
- Eum, B.**, Dolbier, S., & Rangel, A. "Peripheral visual information halves attentional choice biases" 2022. Cognitive Computational Neuroscience, San Francisco, California.
- Eum, B.**, Dolbier, S., & Rangel, A. "Peripheral visual information halves attentional choice biases" 2022. Chen Institute Retreat, Pasadena, California.
- Eum, B.**, Dolbier, S., & Rangel, A. "Peripheral visual information halves attentional choice biases" 2022. The Neurobiology of Reward and Decision-Making, Lake Arrowhead, California.

Teaching Experience

- 2021-2023 **Bayesian Statistics**, Teaching Assistant for Prof. Antonio Rangel
- 2020-2021 **Social & Decision Neuroscience Bootcamp**, Instructor, Microeconomics & Statistics
- 2020 **Introduction to Economics**, Teaching Assistant for Prof. Charlie Plott

Mentoring

- 2021 **Trinity Pruitt**, WAVE Fellowship Program, Co-Mentor with Prof. Antonio Rangel

Professional Experience

- 2016 **Economic Research Assistant**, Haver Analytics
- 2014-2015 **White Collar Criminal Justice Legal Assistant**, Varghese & Associates, PC
- 2013 **Intern to Market Analyst**, Harvey & Company LLC

Professional Development

AD HOC REVIEWER - CONFERENCES

Conference on Cognitive and Computational Neuroscience (2022)

SERVICE AND DEVELOPMENT

- 2021-2022 **Caltech Graduate Student Council**, Department Representative
- 2020-2021 **Social & Decision Neuroscience Bootcamp**, Co-Organizer with Marcos Gallo
- 2020 **Chen Institute Seminar**, Question Curator for Prof. Colin Camerer and Prof. Dean Mobbs
- 2016 **NYU Economics Review**, Co-Founder and Managing Editor

TRAINING COURSES ATTENDED

- 2022 Summer School on the Cognitive Foundations of Economic Behavior

MEMBERSHIPS

Society for Neuroeconomics, Society for Judgement and Decision Making, Phi Beta Kappa

CODING

R, Python (+PsychoPy), MATLAB (+PsychToolbox), Stata, \LaTeX

HOBBIES

rock climbing, snowboarding, cycling, hiking