

Brenden Eum

PHD CANDIDATE · SOCIAL & DECISION NEUROSCIENCE

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Education

California Institute of Technology

PHD SOCIAL & DECISION NEUROSCIENCE

- Advisor: Prof. Antonio Rangel

Pasadena, CA

2019 - present

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 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., Pettus, J., & Tadelis, S. (2020). Communication and Bargainning Breakdown: An Empirical Analysis.

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*.

Moser, C., Saidi, F., Wirth, B., & Wolter, S. (2021). Credit supply, firms, earnings inequality.

Presentations

INVITED TALKS

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 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

2021-2022 **Bayesian Statistics**, Teaching Assistant for Prof. Antonio Rangel

2020-2021 **Social & Decision Neuroscience Bootcamp**, Instructor, Economics & 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

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, MS-Office

HOBBIES

rock climbing, snowboarding, cycling, hiking, backpacking, DJing