Brenden Eum

PhD Student · Social & Decision Neuroscience

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Education

California Institute of Technology — *Pasadena, CA*
PhD Social & Decision Neuroscience — *2019 - 2024 (expected)*
- Advisor: Prof. Antonio Rangel

Columbia University — *New York, NY*
MA Economics — *2016 - 2017*
- Advisor: Prof. Brendan O'Flaherty

New York University — *New York, NY*
BA Economics, Magna Cum Laude — *2014 - 2016*
- Minor in Mathematics

Chapman University — *Orange, CA*
BA Political Science, Economics (Transferred Out) — *2012 - 2014*
- Accelerated 4+1 MBA Program

Awards, Fellowships, & Grants

2023	**Kanel Scholarship**, The John and Ursula Kanel Charitable Foundation	*$ 10,000*
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

Causal manipulation of early noise biases numerosity judgements towards adaptive prior means (with Antonio Rangel & Michael Woodford)

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

Attentional biases in choices between gains versus choices between losses (with Stephen Gonzalez & Antonio Rangel)

Presentations

Invited Talks

Eum, B., Dolbier, S., & Rangel, A. "Peripheral visual information halves attentional choice biases" 2023 (upcoming). Brown-bag Seminars, University of Toronto Rotman School of Management.

Eum, B., Gonzalez, S., & Rangel, A. "Attentional biases in choices between gains versus choices between losses" 2023 (upcoming). Shenhav Lab, Brown University.

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 Judgement 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

Conference on Cognitive and Computational Neuroscience (2022)

Service

Certificate of Practice in University Teaching, Caltech Center for Teaching, Learning, & Outreach (2023)
Graduate Student Representative, Caltech Graduate Student Council (2021-2022)

Co-Organizer, Social & Decision Neuroscience Bootcamp (2020-2021)
Question Curator for Prof. Colin Camerer and Prof. Dean Mobbs, Chen Institute Seminar (2020)
Co-Founder & Managing Editor, NYU Economics Review (2016)

Training Courses Attended

Summer School on the Cognitive Foundations of Economic Behavior in Vitznau, Switzerland (2022)

Memberships

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

Coding

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

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*.

Hobbies

rock climbing, snowboarding, hiking