

# Brenden Eum

California Institute of Technology, 1200 E. California Blvd. MC 228-77, Pasadena, CA 91125  
☎ 714-906-7269 | ✉ beum@caltech.edu | 🏠 brendeneum.com | 📄 github.com/BrendenEum

## Employment

### Rotman School of Management, University of Toronto

POSTDOCTORAL FELLOW, MARKETING

- Principal Investigator: Ryan Webb

Toronto, ON

2024 - 2026 (expected)

## Education

### California Institute of Technology

PHD SOCIAL & DECISION NEUROSCIENCE

- Advisor: Antonio Rangel
- Committee: Colin Camerer, Michael Woodford, Charlie Sprenger

Pasadena, CA

2019 - 2024

### Columbia University

MA ECONOMICS

- Advisor: Brendan O'Flaherty

New York, NY

2016 - 2017

### New York University

BA ECONOMICS, MAGNA CUM LAUDE

- Minor in Mathematics

New York, NY

2014 - 2016

### Chapman University

BA POLITICAL SCIENCE, ECONOMICS (TRANSFERRED OUT)

- Accelerated 4+1 MBA Program

Orange, CA

2012 - 2014

## Awards, Fellowships, & Grants

2023-2024	<b>Graduate Fellowship</b> , A. Michael and Ruth C. Lipper Graduate Fellowship Fund	\$ 22,500
2023	<b>Kanel Scholarship</b> , The John and Ursula Kanel Charitable Foundation	\$ 10,000
2022	<b>Chen Graduate Innovator Grant</b> , T&C Chen Center for Social & Decision Neuroscience	\$ 10,000
2021	<b>Brass Division Teaching Award</b> , Humanities and Social Sciences, Caltech	\$ 1,500
2019	<b>Chen Graduate Fellowship</b> , T&C Chen Center for Social & Decision Neuroscience	\$ 95,700
2017-2019	<b>Predoctoral Fellowship</b> , Joint Micro- & Macroeconomics, Columbia Business School	\$ 105,400
2016	<b>NYU Founder's Day Scholar Award</b> , New York University	
2014	<b>Parliamentary Debate Gold Medalist</b> , Pacific Southwest Collegiate Forensics Tournament	

## Publications

**Eum, B.**, Dolbier, S., & Rangel, A. (2023). Peripheral Visual Information Halves Attentional Choice Biases. *Psychological Science*, 34(9), 984-998. <https://doi.org/10.1177/09567976231184878>

## WORK IN PROGRESS

**Eum, B.**, Gonzalez, S., & Rangel, A. Attention in Aversive Choice: Sequential Sampling Over Reference-Dependent Value Signals.

**Eum, B.**, Onderdonk, E., Schroder, E., & Rangel, A. Sequential Integration in Risky Choices From Experience Results in Mean-Variance Preferences.

## Presentations

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### INVITED TALKS

- Eum, B.**, Gonzalez, S., & Rangel, A. “Attentional Over-Weighting in Gains, Attentional Under-Weighting in Losses” 2023. Society for Neuroeconomics, Vancouver, Canada.
- Eum, B.**, Dolbier, S., & Rangel, A. “Looking at Attention in Value-Based Decision Making” 2023. Brownbag Seminars, Rotman School of Management, University of Toronto.
- Eum, B.**, Dolbier, S., & Rangel, A. “Looking at Attention in Value-Based Decision Making” 2023. 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.**, Gonzalez, S., & Rangel, A. “Attentional Over-Weighting in Gains, Attentional Under-Weighting in Losses” 2023. Society for Judgement and Decision Making, San Francisco, California.
- Eum, B.**, Gonzalez, S., & Rangel, A. “Attentional Over-Weighting in Gains, Attentional Under-Weighting in Losses” 2023. Association for Consumer Research, Seattle, Washington.
- Eum, B.**, Gonzalez, S., & Rangel, A. “Attentional Over-Weighting in Gains, Attentional Under-Weighting in Losses” 2023. Interdisciplinary Symposium on Decision Neuroscience, Fox School of Business, Temple University.
- Eum, B.**, Gonzalez, S., & Rangel, A. “Attentional Over-Weighting in Gains, Attentional Under-Weighting in Losses” 2023. Neuroeconomics Summer School, University of Pennsylvania.
- Eum, B.**, Enkavi, Z., O’Doherty, J., & Rangel, A. “Value signals in the orbitofrontal cortex incorporate reference-dependent news utility” 2023. Curiosity, Creativity, Complexity. Columbia University.
- 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

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- 2020-2023 **Certificate of Practice in University Teaching**, from Caltech Teaching, Learning, & Outreach
- 2021-2023 **Bayesian Statistics**, Teaching Assistant for Antonio Rangel (Avg. Evaluation: 4.86/5)
- 2020-2023 **Social & Decision Neuroscience Bootcamp**, Instructor, Microeconomics & Statistics
- 2020 **Introduction to Economics**, Teaching Assistant for Charlie Plott (Avg. Evaluation: 4.58/5)

## Mentoring

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- 2023 **Ella Onderdonk**, Caltech SURF Program, Co-Mentor with Antonio Rangel
- 2021 **Trinity Pruitt**, WAVE Fellowship Program, Co-Mentor with Antonio Rangel

## Professional Experience

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- 2016 **Economic Research Assistant**, Haver Analytics
- 2014-2015 **White Collar Criminal Justice Legal Assistant**, Varghese & Associates, PC
- 2014 **Personal Injury Legal Clerk**, Law Offices of Day, Day, & Brown
- 2013 **Intern to Market Analyst**, Harvey & Company LLC
- 2012 **Business Law Intern**, Paragon Law Center, PC

## Professional Development

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### AD HOC REVIEWER

Conference on Cognitive and Computational Neuroscience (2022)

### ORGANIZER

Sole Organizer, Online Webcam Eye-Tracking in Behavioral Studies, with Guest Speaker Dr. Alexandra Papoutsaki (2023)  
Lead Organizer, Social & Decision Neuroscience Bootcamp (2020-2023)  
Co-Founder & Managing Editor, NYU Economics Review (2016)

### SERVICE

Volunteer, Caltech Y Youth Outreach (2023)  
Graduate Student Representative, Caltech Graduate Student Council (2021-2022)  
Question Curator for Prof. Colin Camerer and Prof. Dean Mobbs, Chen Institute Seminar (2020)

### TRAINING COURSES ATTENDED

Neuroeconomics Summer School at the University of Pennsylvania (2023)  
Summer School on the Cognitive Foundations of Economic Behavior in Vitznau, Switzerland (2022)

### MEDIA COVERAGE

NOMIS Foundation (2023), Peripheral visual information affects choice  
Caltech HSS Year in Review (2023), Peripheral Visual Information Affects Choice  
The Caltech News (2023), Peripheral Visual Information Affects Choice

### MEMBERSHIPS

Society for Neuroeconomics  
Society for Judgement and Decision Making  
Association for Consumer Research  
Phi Beta Kappa

### CODING

R, Python (+PsychoPy), Shell, MATLAB (+PsychToolbox),  $\text{\LaTeX}$

### 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, music production