



# A. Zeynep Enkavi

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## Education

*Stanford University* 2019  
Ph.D. in Psychology  
Concentration: Neuroscience  
Adviser: Russell A. Poldrack

*University of Pennsylvania* 2012  
B.A. in Cognitive Science, German Studies  
Minor: Science, Technology and Society  
Adviser: Joseph W. Kable

## Employment

*California Institute of Technology* 2019-Present  
Rangel Neuroeconomics Lab  
Postdoctoral Scholar  
Adviser: Antonio Rangel

*Columbia Business School* 2012-14  
Center for Decision Sciences  
Lab Manager  
Advisers: Eric J. Johnson, Elke U. Weber

## Publications

IN PREPARATION

**Enkavi, A. Z.,** Lombardi, G., Hare, T., Rangel, A. Human simple choice in non-human experiments: Differences in value representations during decisions between familiar or novel items.

**Enkavi, A. Z.,** Goldman, J., Yang, L., Rangel, A. aDDM-Toolbox: Estimating time-varying drift rates with Julia and GPUs.

**Enkavi, A. Z.,** Schroder, E., Goldman, J., Yang, L., Rangel, A. A meta-analytic review of attentional discounting effects in simple value-based choice.

**Enkavi, A. Z.,** Tavares, G., Rangel, A. Choosing between bundles of described and experienced risks.

**Enkavi, A. Z.,** Helfinstein, S., Poldrack, R. A. Statistically identical but cognitively different models of risky behavior during adolescence.

## 2023

Bissett, P. G., Eisenberg, I. W., Shim, S., Rios, J. A. H., Jones, H. M., Hagen, M. P., **Enkavi, A. Z.**, Li, J. K., Mumford, J. A., MacKinnon, D. P., Marsch, L. A., & Poldrack, R. A. (2023) Cognitive tasks, anatomical MRI, and functional MRI data evaluating the construct of self-regulation. *Submitted bioRxiv* 2023.09.27.559869

## 2022

Kliemann, D., Armstrong, T., Galdi, P., Kahn, D., Rusch, T., **Enkavi, A. Z.**, Liang, D., Lograsso, S., Zhu, W., Yu, R., Nair, R., Paul, L., Tyszka, J. M., Adolphs, R. (2022) Caltech Conte Center - A multimodal data resource for exploring social cognition and decision-making. *Scientific Data*, 9 (1), 1-15.

## 2021

**Enkavi, A. Z.**, Poldrack, R. A. (2021). Implications of the lacking relationship between cognitive task and self report measures for psychiatry. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 6 (7), 670-672.

Mazza, G. L., Smyth, H. L., Bissett, P. G., Canning, J. R., Eisenberg, I. W., **Enkavi, A. Z.**, Gonzalez, O., Kim, S. J., Metcalf, S. A., Muniz, F., Pelham III, W. E., Scherer E. A., Valente, M. J., Xie, H., Poldrack, R. A., Marsch, L. A., MacKinnon, D. P. (2021). Correlation Database of 60 Cross-Disciplinary Surveys and Cognitive Tasks Assessing Self-Regulation. *Journal of Personality Assessment*, 103 (2), 238-245.

## 2019

**Enkavi, A. Z.**, Eisenberg, I. W., Bissett, P. G., Mazza, G. L., MacKinnon, D. P., Marsch, L. A., & Poldrack, R. A. (2019). Reply to Friedman and Banich: Right measures for the research question. *Proceedings of the National Academy of Sciences*, 116 (49), 24398-24399.

Eisenberg, I. W., Bissett, P. G., **Enkavi, A. Z.**, Li, J., MacKinnon, D. P., Marsch, L. A., & Poldrack, R. A. (2019). Uncovering the structure of self-regulation through data-driven ontology discovery. *Nature communications*, 10 (1), 2319.

**Enkavi, A. Z.**, Eisenberg, I. W., Bissett, P. G., Mazza, G. L., MacKinnon, D. P., Marsch, L. A., & Poldrack, R. A. (2019). Large-scale analysis of test-retest reliabilities of self-regulation measures. *Proceedings of the National Academy of Sciences*, 116 (12), 5472-5477.

## Pre - 2019

Eisenberg, I. W., Bissett, P. G., Canning, J. R., Dallery, J., **Enkavi, A. Z.**, Whitfield-Gabrieli, S., ... & Kim, S. J. (2018). Applying novel technologies and methods to inform the ontology of self-regulation. *Behaviour research and therapy*, 101, 46-57.

**Enkavi, A. Z.**, Weber, B., Zweyer, I., Wagner, J., Elger, C. E., Weber, E. U., & Johnson, E. J. (2017). Evidence for hippocampal dependence of value-based decisions. *Scientific reports*, 7 (1), 17738.

Sochat, V. V., Eisenberg, I. W., **Enkavi, A. Z.**, Li, J., Bissett, P. G., & Poldrack, R. A. (2016). The experiment factory: standardizing behavioral experiments. *Frontiers in psychology*, 7, 610.

Li, Y., Gao, J., **Enkavi, A. Z.**, Zaval, L., Weber, E. U., & Johnson, E. J. (2015). Sound credit scores and financial decisions despite cognitive aging. *Proceedings of the National Academy of Sciences*, 112 (1), 65-69.

## Invited Talks

2022: NIMH RDoC Roundtable (Virtual)

2021: Cognitive Sciences Colloquium, UC Irvine (Virtual)

2018: Cognitive and Neuroscience Seminar Series, Stanford

## Conference presentations

### TALKS

Enkavi, A. Z. (2023), "Human simple choice in a non-human primate paradigm", Interdisciplinary Symposium on Decision Neuroscience, Temple University.

Enkavi, A. Z. (2023), "Human simple choice in a non-human primate paradigm", Social and Decision Neuroscience Symposium Series, Caltech.

Enkavi, A. Z. (2015), "Preference consistency relies on hippocampal function: Evidence from mediotemporal lobe epilepsy", Interdisciplinary Symposium on Decision Neuroscience, MIT.

### POSTERS

Enkavi, A. Z., Lombardi, G., Hare, T., Rangel, A. "Human simple choice in non-human experiments." 2023. Conference on Cognitive Computational Neuroscience, Oxford, UK.

Enkavi, A. Z., Tavares, G., Rangel, A. "Choice between multi-attribute and multi-modal uncertainties" 2022. Society for Neuroeconomics Annual Meeting, Arlington, VA.

Enkavi, A. Z., Tavares, G., Rangel, A. "Choosing between bundles of described and experienced risks" 2022. The Neurobiology of Reward And Decision-Making (II), Lake Arrowhead, California.

Enkavi, A. Z., Eisenberg, I. W., Bissett, P. G., Mazza, G. L, MacKinnon, D. P., Marsch, L. A., Poldrack, R. A., "A large scale analysis of cognitive task measures of self-regulation" 2018. Society for Neuroeconomics Annual Meeting, Philadelphia, Pennsylvania.

Enkavi, A. Z., Eisenberg, I. W., Bissett, P. G., Mazza, G. L, MacKinnon, D. P., Marsch, L. A., Poldrack, R. A., "A large scale analysis of test-retest reliabilities of self-regulation measures" 2017. Society of Judgment and Decision Making Annual Meeting, Vancouver, Canada.

Enkavi, A. Z., Eisenberg, I. W., Bissett, P. G., Mazza, G. L, MacKinnon, D. P., Marsch, L. A., Poldrack, R. A., "A large scale analysis of test-retest reliabilities of self-regulation measures" 2017. Society for Neuroeconomics Annual Meeting, Toronto, Canada.

Enkavi, A. Z., McClure, S. M, "Beyond Delay Discounting: Intertemporal Choice Between Non-Unitary Rewards" 2015. Society of Judgment and Decision Making Annual Meeting, Chicago, Illinois.

Enkavi, A. Z., McClure, S. M., “Beyond Delay Discounting: Intertemporal Choice Between Non-Unitary Rewards” 2015 Society for Neuroeconomics Annual Meeting, Miami, Florida.

Enkavi, A. Z., Gao, J., Li, Y., Johnson E. J., Weber, E. U. What Measures of Risk Attitude Predict Real World Risk Taking? 2014. Society of Judgment and Decision Making Annual Meeting, Long Beach, California.

Enkavi, A. Z., Weber, B., Zweyer, I., Wagner, J., Elger, C. E., Weber, E. U., Johnson, E. J. Preference consistency relies on hippocampal function: Evidence from mediotemporal lobe epilepsy. 2014. Society of Judgment and Decision Making Annual Meeting, Long Beach, California.

Kazinka, R., Enkavi, A. Z., Vo, K., Kable, J. W. Individual differences in the Asymmetric Dominance Effect. 2014. Society for Neuroeconomics Annual Meeting, Miami, Florida.

Enkavi, A. Z., Gao, J., Li, Y., Zaval, L., Johnson E. J., Weber, E. U. Neurons die, not knowledge: Domain knowledge compensates for declining cognitive ability in financial decision-making. 2013. Society of Judgment and Decision Making Annual Meeting, Toronto, Canada.

## Honors and Awards

Penn World Scholars University of Pennsylvania	2008-12
Erich Friedmann Memorial Prize University of Pennsylvania	2012
Daniel B Shumway Prize University of Pennsylvania	2009

## Training Courses Attended

Evidence-Based Undergraduate STEM Teaching	2023
First Year Faculty Teaching Academy	2023
Neuromatch Academy	2020
OHBM: Fundamental Concepts and Methods in Network Neuroscience	2020
OHBM Brainhack hackathon	2018
SRNDNA computational modeling workshop for Decision Neuroscience and Aging	2015

## Teaching and Mentorship

[Stanford University]

Brain and Decision Making, Teaching Assistant	2018
Introduction to Statistical Methods, Coding assistance	2018
Introduction to Learning and Memory, Teaching Assistant	2016
Introduction to Cognitive Neuroscience, Teaching Assistant	2016
Psych One Teaching Fellow	2015-17

*Undergraduate Research Mentoring*

Lynn Yang, Caltech	2023
Jacob Goldman, Caltech	2023

Jordan Threat, Caltech	2023
Carolina Lopez, Caltech	2023
Hanna Park, Caltech	2023
Omer Ekin, Tufts University	2018
Vinh Ton, Stanford University	2016-18
Dimitrios Konstantellos, MIT	2017
Brian Wu, University of California, Berkeley	2016
Andrea Bell, Columbia University	2014
Joachim Talloen, Rutgers University	2014
Tae Ho Kim, University of Chicago	2013

## Service

Caltech Postdoc Association Division co-representative, Caltech	2022-Present
Graduate student cohort co-representative, Stanford University	2014-19
Graduate student interview weekend co-organizer, Stanford University	2016
Alumni interviewer, University of Pennsylvania	2014-18

## Ad hoc Reviewer

Behavior Research Methods  
 Biological Psychiatry  
 Cerebral Cortex  
 Computational Psychiatry  
 Journal of Neuroscience, Psychology and Economics  
 Nature  
 Nature Human Behaviour  
 NeuroImage  
 Neuropsychopharmacology  
 Trends in Cognitive Sciences

## References

Antonio Rangel, Ph.D.   California Institute of Technology	<a href="mailto:rangel@hss.caltech.edu">rangel@hss.caltech.edu</a>
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