

## Haoxue Fan

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EDUCATION	<b>Harvard University</b> , Cambridge, MA, USA	2024 (Expected)
	Ph.D. Candidate, Psychology	
	Secondary Candidate, Computational Science and Engineering	
	M.A. Psychology	2022
	Dissertation committee: Dr. Elizabeth Phelps (main primary), Dr. Samuel Gershman, Dr. Fiery Cushman	
	<b>Peking University</b> , Beijing, China	2019
	B.S. in Psychology (Economics minor), <i>graduated with honors</i>	
	Advisor: Dr. Jian Li	
	<b>University of California, Berkeley</b> , Berkeley, CA, USA	2017
	Visiting student (Summer Session)	
RESEARCH INTERESTS	Learning and decision-making, Information-seeking, Emotion, Social cognition, Computational Psychiatry	
PUBLICATION AND MANUSCRIPT	<b>Fan, H.</b> , Gershman, S. J., & Phelps, E. A. (2022) Trait somatic anxiety is associated with reduced directed exploration and underestimation of uncertainty. <i>Nature Human Behavior</i> [pdf]	
	Hart, B., Achakulvisut, T., Adeyemi, A., Akrami, A., Alicea, B., Alonso-Andres, A., ... <b>Fan, H.</b> , ... & Wallisch, P. (2022). Neuromatch Academy: a 3-week, online summer school in computational neuroscience. <i>Journal of Open Source Education</i> , 5(49) pdf	
	Castillo, J*, <b>Fan, H*</b> , Karaman, O.T., Shu, J., Stussi, Y., Kredlow, M.A., Vranos, S., Oyarzun, J.P., Dorfman, H., Sambrano, D., Merskin, R., Hirst, W., & Phelps, E. A. ( <i>submitted</i> ) Overestimating negative emotion in autobiographical memory: evidence from memories for the COVID-19 pandemic and 9/11 attacks (*: Equal Contribution) [pdf]	
	Kredlow, M.A*, Oyarzun, J.P*, <b>Fan, H.</b> , Meskin, R., Hirst, W. & Phelps, E.A. ( <i>revise and resubmit</i> ) Language use in narratives of the 9/11 attacks predicts long-term memory [pdf]	
	<b>Fan, H.</b> , Burke, T., Sambrano, D. C., Dial, E., Gershman, S. J., & Phelps, E. A. ( <i>submitted</i> ) Pupil size encodes uncertainty during exploration [pdf]	
INVITED TALK	<b>Fan, H.</b> (Mar 2023). TBD. Yale University, Rutledge Lab	
	<b>Fan, H.</b> (Feb 2023). Pupil encodes uncertainty during exploration. Harvard University, Cognition, Brain, and Behavior Seminar	
	<b>Fan, H.</b> (Feb 2023). Trait somatic anxiety is associated with reduced directed exploration and underestimation of uncertainty. Harvard University, Goldenberg Lab	
	<b>Fan, H.</b> (Oct 2022). Trait somatic anxiety is associated with reduced directed exploration and underestimation of uncertainty. Chinese Computational Psychiatry Association.	
	<b>Fan, H.</b> (Oct 2021). Trait somatic anxiety is associated with reduced directed exploration and underestimation of uncertainty. McGill University, Otto Lab.	
	<b>Fan, H.</b> (Oct 2021). Trait somatic anxiety is associated with reduced directed explo-	

ration and underestimation of uncertainty. Max Planck Institutes Tübingen, Computational Psychiatry Journal Club.

## CONFERENCE TALK

**Fan, H.\***, Castillo, J.\*, Karaman, O. T., Shu, J., Stussi, Y., Kredlow, M. A., Vranos, S., Oyarzun, J. P., Dorfman, H., Sambrano, D., & Phelps, E. A. (Nov, 2022). Overestimating stress experienced early during the pandemic is associated with decreased emotional well-being. Symposium talk presented as part of "Exploring Relationships Between Various Cognitive Mechanisms and COVID-19 Emotional Distress" at the 56th annual convention of the Association for Behavioral and Cognitive Therapies (New York, NY)

**Fan, H.**, Gershman S.J., & Phelps E.A. (September, 2021). Trait somatic anxiety is associated with reduced directed exploration and underestimation of uncertainty. *Society for Neuroeconomics Annual Meeting (virtual)*. silver best talk award

## CONFERENCE POSTER

**Fan, H.**, Gershman S. J., & Phelps E. A. (June, 2022). Trait somatic anxiety is associated with reduced directed exploration and underestimation of uncertainty. *20th Summer Institute on Bounded Rationality, Berlin, Germany*

Castillo, J.\*, **Fan, H.\***, Karaman, O. T., Shu, J., Stussi, Y., Kredlow, M. A., Vranos, S., Oyarzun, J. P., Dorfman, H., Sambrano, D., & Phelps, E. A. (May, 2022). Overestimating stress experienced early during the pandemic is associated with decreased emotional well-being. *Social and Affective Neuroscience Society Annual Meeting (virtual)*

Aslarus I., Kredlow, M.A., **Fan H.**, & Phelps, E.A. (May, 2022). Novelty Exposure Interferes with Visual Emotional Memory Consolidation. *Social and Affective Neuroscience Society Annual Meeting (virtual)*

Kredlow, M.A., Oyarzun, J.P., **Fan, H.**, Meskin, R., Hirst, W. & Phelps, E.A. (November, 2021). Do linguistic features of trauma narratives predict trauma-related emotions and memory over time? Symposium presented as part of "Making sense of trauma memories: Characteristics and responses to trauma narratives as predictors of PTSD outcomes" at the 37th annual conference of the International Society for Traumatic Stress Studies (virtual)

**Fan, H.**, Gershman S. J., & Phelps E. A. (Apr, 2021). Distinct Effects of Trait Anxiety Components on Exploration *Wisconsin Symposium on Emotion (virtual)*

Heffner, J., Son, J., **Fan, H.**, & FeldmanHall, O. (May, 2019). The Joy of Punishment: Early Emotional Reactions Predict Decisions to Restore Justice. *Social and Affective Neuroscience Society Annual Meeting, Miami Beach, Florida*

## HONORS AND AWARDS

Certificate of Distinction in Teaching, Harvard University	2022
GSAS Professional Development Fund, Harvard University	2022
Silver Best Talk Award, Society for Neuroeconomics Annual Meeting	2021
Outstanding Graduate Award, Beijing Municipal Education Commission	2019
College Student Research Program, Beijing Municipal Education Commission	2017
National Scholarship, Ministry of Education of China	2017, 2018
Pacemaker to Merit Student, Peking University	2017, 2018
Xinhe Scholarship, Peking University	2016

## RESEARCH TRAINING

**Summer Institute on Bounded Rationality**(June, 2022), *Berlin, Germany*

## TEACHING EXPERIENCE

**Instructor**, *Let me google it: Information seeking (avoidance) in everyday life*, January 2021 (a five-lecture introductory psychology course)

**Teaching Assistant**, *PSY 1322: Decisions Big and Small: The Cognitive Science of*

*Making Up Your Mind (Instructor: Dr. Tomer Ullman), Spring 2023*

**Teaching Assistant**, *PSY 1901: Methods of Behavioral Research (Instructor: Dr. Mina Cikara), Fall 2022*

**Teaching Assistant**, *PSY 1401: Computational Cognitive Neuroscience: Building Models of the Brain (Instructor: Dr. Samuel J. Gershman), Spring 2022*

**Teaching Assistant**, *AM 207: Stochastic Methods for Data Analysis, Inference and Optimization (Instructor: Dr. Weiwei Pan), Fall 2021*

**Teaching Assistant**, *online R workshop on Fundamentals of Tidyverse (Instructors: Drs. Kelly Bodwin & Hunter Glanz), Jan 2021*

## **SERVICE AND VOLUNTEER**

**Orientation Panelist**, *Harvard University Department of Psychology, 2022*

**Mentoring Co-chair**, *Harvard Graduate Women in Science and Engineering, 2022 - Present*

**Graduate Student Organizer**, *Innovators in Cognitive Neuroscience, 2022*

**Graduate Student Interview Day Committee**, *Harvard University Department of Psychology, 2022*

**Student Salon Host**, Theme: Studying emotion in decision-making. co-hosted with Dr. Ian Robert. *Society for Neuroeconomics Annual Meeting 2021 (virtual), 2021*

**Graduate Student Representative**, *Harvard University Department of Psychology, 2021 - Present*

**Event Coordinator**, *Harvard Women in Psychology, 2021 - Present*

**PPREP Identity and Empowering Panelist**, *Harvard Prospective PhD and RA Event in Psychology, 2021, 2022*

**PPREP Mentor**, *Harvard Prospective PhD and RA Event in Psychology, 2020, 2021*

**International Community Conversation Facilitator**, *Harvard GSAS orientation, Aug 2020*

**Video Caption Editor**, *Neuromatch Academy 2020, Aug 2020*

## **MENTORSHIP EXPERIENCE**

Certificate in Mentoring Undergraduates in Science, *Harvard University, Apr 2022*

Mentored Harvard Undergraduates:

Rachel Mehler (co-advise with Hayley Dorfman), 2023-Present

Bryan Dong (co-advise with Hayley Dorfman), 2023-Present

Ecem Sena Uluegeci (co-advise with Hayley Dorfman), 2022-Present

Emily Dial, 2022-Present

Isabella Caterina Aslarus (co-advise with Xandra Kredlow), 2020-2021 (Current: Lab Manager, Brown University)

## **TECHNICAL SKILLS**

Python, R, MATLAB, Web Programming (Javascript, HTML, CSS), Qualtrics, SPSS, Git,  $\text{\LaTeX}$