Haoxue Fan

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EDUCATION

Harvard University, Cambridge, MA, USA   2024 (Expected)
Ph.D. Candidate, Psychology
Secondary Candidate, Computational Science and Engineering
M.A. Psychology   2022
Dissertation comittee: Dr. Elizabeth Phelps (main advisor), Dr. Samuel Gershman, Dr. Fiery Cushman

Peking University, Beijing, China   2019
B.S. in Psychology (Economics minor), *graduated with honors*
Advisor: Dr. Jian Li

University of California, Berkeley, Berkeley, CA, USA   2017
Visiting student (Summer Session)

RESEARCH INTERESTS

Learning and decision-making, Information-seeking, Emotion, Social cognition, Computational Psychiatry

PUBLICATION AND MANUSCRIPT

Fan, H., Gershman, S. J., & Phelps, E. A. (2022) Trait somatic anxiety is associated with reduced directed exploration and underestimation of uncertainty. *Nature Human Behavior* [pdf]

Hart, B., Achakulvisut, T., Adeyemi, A., Akrami, A., Alicea, B., Alonso-Andres, A., ... **Fan, H.**, ... & Wallisch, P. (2022). Neuromatch Academy: a 3-week, online summer school in computational neuroscience. *Journal of Open Source Education, 5*(49) pdf

Fan, H., Burke, T., Sambrano, D., Dial, E., Gershman, S. J., & Phelps, E. A. (*in prep*) Pupil size encodes uncertainty during exploration and predicts trial-by-trial choice variability

Kredlow, M.A., Oyarzun, J.P., **Fan, H.**, Meskin, R., Hirst, W. & Phelps, E.A. (*submitted*) Language use in narratives of the 9/11 attacks predicts long-term memory

Castillo, J*., **Fan, H*.**, 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. (*in prep*) Overestimating negative emotion in autobiographical memory: evidence from memories for the COVID-19 pandemic and 9/11 attacks (*: Equal Contribution)

INVITED TALK

Fan, H. (October, 2022). Trait somatic anxiety is associated with reduced directed exploration and underestimation of uncertainty. Chinese Computational Psychiatry Association

Fan, H. (October, 2021). Trait somatic anxiety is associated with reduced directed exploration and underestimation of uncertainty. McGill University, Otto Lab.

Fan, H. (October, 2021). Trait somatic anxiety is associated with reduced directed exploration 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 to be 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 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:
	Ecem Sena Uluegeci (co-advise with Hayley Dorfman), 2022-Present
	Emily Dial, 2022-Present
	Isabella Caterina Aslarus, 2020-2021 (Current: Lab Manager, Brown University)
TECHNICAL SKILLS	Python, R, MATLAB, Web Programming (Javascript, HTML, CSS), Qualtrics, SPSS, Git, LaTeX