Kesong Cao (he/him/his) Curriculum Vitae

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Education

2017-2020 B.A. (Hons) Computer Sciences, Economics University of Wisconsin-Madison 2021-2026 (Expected) Ph.D. Cognitive Psychology (Advisor: Joseph L. Austerweil) University of Wisconsin-Madison

Positions held

Research Assistant, Austerweil Lab, Department of Psychology, University of Wisconsin-Madison
 Software Developer, Division of Information Technology (DoIT), University of Wisconsin-Madison
 Teaching Assistant, Department of Psychology, University of Wisconsin-Madison
 Teaching Assistant, Department of Psychology, University of Wisconsin-Madison

Skills

Programming Languages: Python, R, JavaScript, SQL, Java, C/C++, Julia, Haskell, MATLAB

Frameworks and Platforms: PyTorch (Hugging Face), PyMC3, OpenAI gym (RL), Mesa (agent-based modeling),

jsPsych, PsychoPy, Keras, Angular, React, Spring Boot, Figma

Productivity: Git, Linux, 上TFX

Natural Languages: English, Chinese (Mandarin, Cantonese), Japanese

Objective

Early career researcher interested in human cognition and behavior, especially in categorization – one of the most fundamental cognitive abilities. Broadly interested in language, visual perception, decision-making, learning, and machine learning fields such as natural language processing, computer vision, and reinforcement learning. Equipped with strong statistical, data analytical, programming, and communication (written and verbal) skills. Aim to conduct research full-time while also perform mentoring and/or teaching after the graduate training.

Publications

Published Peer-Reviewed Journal Articles

1. Zemla, J. C., Cao, K., Mueller, K. D., & Austerweil, J. L. (2020). SNAFU: The Semantic Network and Fluency Utility. *Behavior Research Methods*, 1–19.

Peer-Reviewed Book Chapters

1. Austerweil, J. L., Pilgrim, C., & Cao, K. (in press). Burstier events: Analysing human memory over a century of events using the new york times. Oxford handbook of behavioral data analysis. https://psyarxiv.com/yt2bn

Presentations

Abstract-based conference presentations

How does modern life affect memory retrieval: Analyzing 20min, 53rd Annual Meeting of the July 2020 news headlines Society for Mathematical Psychology

What affects second language learning? 3min, Three Minute Thesis, 2021 November 2021

UW-Madison Semi-final Competition

Hugging Face: NLP and more 4min, UW-Madison Data Science February 2022

Research Bazaar - Lightning Talks

Invited talks at workshops or i	nformal settings		
Advice on pursuing graduate studies in psychology		1h, Panel speaker, Chinese Psychel gos (undergraduate student organ tion)	
Modeling Collaboration in Coding Projects		15min, Student attendee, Graduat Workshop in Computational Social Science, Santa Fe Institute	•
Collaboration Insights in Coding Projects for HMT		10min, Trainee, Speculative Huma machine Teaming Workshop, Carn Mellon University	-
Teaching and Mentoring			
Courses taught as TA			
COMP SCI 537: Introduction to Operating Systems		Instructor: Shivaram Venkatarama	n Spring 2020
PSYCH 202: Introduction To Psychology		Instructor: Jeffrey Henriques	Fall 2021
PSYCH 202: Introduction To Psychology		Instructor: Rebecca Addington	Spring 2022
Lectures and workshop section	ns taught as instructor		
Intro to Deep Learning with K	eras: Advanced layer types	half-day, data science @ uw-madis	on Spring 2022
REU Data Carpentry: Intro to R and dplyr		half-day, data science @ uw-madis	on Summer 2022
Mentees			
Uday Malhotra	undergraduate researcher		Fall 2021 -
Service			
Department/University			
Web/Graphic Designer and Member	Departmental Colloquium Series Committee		Fall 2021 -
Professional			
Volunteer Reviewer	44th Annual Meeting of the Cognitive Science Society (CogSci)		Spring 2022
Volunteer Instructor and Helper	data science @ uw-madison Sp		Spring 2022 -
Community			
Member	TAA – Graduate Worker Union of UW-Madison		Fall 2021 -
Translator	xkcd Comics, English to Chinese at xkcd.in		Fall 2021 -
Advisor/Member	Chinese Psychelogos (undergraduate student organization) Fall 2		Fall 2021 - Spring 2022
Other activities			
Mentee/Attendee	Annual Meeting of the Cognitive Science Society (CogSci)		Summer 2021, 2022
Participant	IC2S2 datathon: Computational Social Science for Pandemic- Related Social Good, University of Chicago		Summer 2022
Participant	Human-Guided System Adaptation (HSA) hackathon: Hybrid Team Mega-Tetris, Columbia University		Summer 2022
Student	European Summer School in L NUI Galway	ogic, Language, and Information,	Summer 2022