Shivang Shelat

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Education

UNIVERSITY OF CALIFORNIA, SANTA BARBARA
PhD Cognition, Perception & Cognitive Neuroscience   2023 –
BS Psychological & Brain Sciences *with highest honors*   2019 – 2023

Selected Honors

Graduate Research Fellowship, National Science Foundation   2023 – 2026
Mayer Award for Outstanding Research Contribution, University of California, Santa Barbara   2025
Software of the Year Honorable Mention (Team Award), NASA   2025
National Eye Institute Early Career Scientist Travel Grant, Vision Sciences Society   2024
Ames Honor Award, NASA   2023
Morgan Award for Research Promise, University of California, Santa Barbara   2022
Teledyne Presidential Scholarship Award, Teledyne Technologies   2019

Experience

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

Graduate Research Fellow, Attention Lab & Memory, Emotion, Thought, Awareness Lab   Sep. 2023 –
PIs: Dr. Barry Giesbrecht & Dr. Jonathan Schooler

Research Assistant, Media Neuroscience Lab   Jan. 2021 – Aug. 2022
PI: Dr. Rene Weber

Lab Manager, Memory Emotion, Thought, Awareness Lab   Mar. 2021 – Jun. 2022
PI: Dr. Jonathan Schooler

Research Assistant, Ashby Lab for Computational Cognitive Neuroscience   Mar. 2020 – Mar. 2021
PI: Dr. Gregory Ashby

NASA AMES RESEARCH CENTER – SJSURF

Student Researcher, Human–Computer Interaction Group   Jun. 2021 – Aug. 2023
PI: Dr. Jessica Marquez

Student Researcher, Increasingly Automated Air Cargo Operations Group   Jun. 2020 – Sep. 2020
PI: Dr. Richard Mogford

Publications

13 total – 6 first, 1 co-first, and 5 second author
student mentees underlined, equal contributions marked by asterisk

Shelat, S., Marome, B., Lopez, C., Giesbrecht, B., & Schooler, J. W. (in press). The veil of distraction: Mind-wandering and memorability jointly shape visual recognition and recall. *Memory & Cognition*.

Marome, B.*, **Shelat, S.***, & Schooler, J. W. (2025). The phenomenology of encoding: Experience sampling reveals thoughts associated with the retention of visual and verbal materials. *Consciousness and Cognition*.

Shelat, S., Homer, K., Karasinski, J. A., & Marquez, J. J. (2025). Multidimensional usability assessment in spaceflight analog missions. *Human-Computer Interaction for Space Exploration, SpaceCHI 4.0*.

Shelat, S., & Giesbrecht, B. (2025). Perceptual decoupling in the sustained attention to response task is likely: Comment on Bedi, Russell, & Helton (2024). *Experimental Brain Research*.

Garg, A., **Shelat, S**., Gross, M. E., Smallwood, J., Seli, P., Taxali, A., Sripada, C. S., & Schooler, J. W. (2025). Opening the black box: Think Aloud as a method to study the spontaneous stream of consciousness. *Consciousness and Cognition*.

Karasinski, J. A., **Shelat, S.**, & Marquez, J. J. (2025). Validation of self-scheduling countermeasures in NASA's HERA Campaign 6. *SciTech Forum*.

Garg, A., **Shelat, S.**, & Schooler, J. W. (2025). Now I feel like I'm going to get to it soon: A brief, scalable intervention for state procrastination. *BMC Psychology*.

Shelat, S., Marquez, J. J., Zheng, J., & Karasinski, J. A. (2024). Collaborative system usability in spaceflight analog environments through remote observations. *Applied Sciences*.

Shelat, S., Schooler, J. W., & Giesbrecht, B. (2024). Predicting attentional lapses using response time speed in continuous performance tasks. *Frontiers in Cognition*.

Zheng, J., **Shelat, S.**, & Marquez, J. J. (2023). Facilitating crew-computer collaboration during mixed-initiative space mission planning. *Human-Computer Interaction for Space Exploration, SpaceCHI 3.0*.

Marquez, J. J., **Shelat, S.**, & Karasinski, J. A. (2022). Promoting crew autonomy in a human spaceflight Earth analog mission through self-scheduling. *Accelerating Space Commerce, Exploration, and New Discovery, ASCEND*.

Shelat, S., Karasinski, J. A., Flynn-Evans, E. E., & Marquez, J. J. (2022). Evaluation of user experience of self-scheduling software for astronauts: Defining a satisfaction baseline. *Engineering Psychology and Cognitive Ergonomics, Lecture Notes in Computer Science*.

Young, A., Robbins, I., & **Shelat, S.** (2022). From micro to macro: The combination of consciousness. *Frontiers in Psychology*.

In Progress

Shelat, S., Clubb, A. R., Giesbrecht, B.*, & Schooler, J. W.* (in prep). Social desirability bias obscures mind-wandering reports.

Shelat, S., & Giesbrecht, B. (under revision). Value-driven attentional capture prevents commission errors in real time.

Presentations

Posters

Shelat, S., Clubb, A. R., Schooler, J. W., & Giesbrecht, B. (2025). Social desirability bias distorts self-reports of mind-wandering. In *Psychonomic Society's 66th Annual Meeting*.

Shelat, S., Schooler, J. W., & Giesbrecht, B. (2025). Catching the wandering mind with real-time triggers. In *Annual Meeting of the Vision Sciences Society*.

Shelat, S., & Giesbrecht, B. (2024). Value-driven attentional capture in a continuous performance task with real-time triggering. In *Psychonomic Society's 65th Annual Meeting*.

Tzetzo, A. G., **Shelat, S.**, Schooler, J. W., & Protzko, J. (2024). Phantom hurdles. In *Psychonomic Society's 65th Annual Meeting*.

Shelat, S., & Giesbrecht, B. (2024). Real-time prevention of response inhibition failures via value-driven attentional capture. In *Institute for Collaborative Technologies: Cognitive Neuroscience Workshop*.

Shelat, S., Marome, B., Giesbrecht, B., & Schooler, J. W. (2024). Mind-wandering during encoding impairs recognition for both forgettable and memorable complex scenes. In *Annual Meeting of the Vision Sciences Society*.

Tzetzo, A. G., **Shelat, S.**, Schooler, J. W., & Protzko, J. (2024). Unfinished tasks turning into phantom hurdles. In *16th Annual Meeting of the Society for the Science of Motivation*.

Talks

Marquez, J. J., **Shelat, S.**, Zheng, J., & Karasinski, J. A. (2023). Inferring collaboration strategies and usability from remote observations in a spaceflight analog environment. In *14th International Conference on Applied Human Factors and Ergonomics*.

Marquez, J. J., Karasinski, J. A., Zheng, J., Bresina, J., & **Shelat, S**. (2023). Crew autonomy through self-scheduling: Guidelines for crew scheduling performance envelope and mitigation strategies. In *Human Research Program Investigators' Workshop 2023*.

Shelat, S., Karasinski, J. A., Flynn-Evans, E. E., & Marquez, J. J. (2022). Evaluation of user experience of self-scheduling software for astronauts: Defining a satisfaction baseline. In *International Conference on Human-Computer Interaction*.

Service, Mentoring, & Development

SERVICE

Undergraduate Experience Committee Representative 2025 –
member on committee to manage student engagement initiatives and organize annual awards ceremonies

Access Grads Mentor 2024 –
mentor for students interested in pursuing graduate school

Fellowship & Grant Writing Panelist 2025
speaker on experiences with applications to funding sources

NSF GRFP Advice Panelist 2025
speaker on writing statements of purpose and research plans

REVIEWING (AD HOC)

Cognition and Emotion

MENTORSHIP

Alexis Clubb → *assistant director for the Sage Center for the Study of the Mind* 2024 –
Casey Lopez → *quantitative methodology research assistant with Dr. Delwin Carter* 2024 –
Karina Mijangos Guzman → *lead Attention Lab research assistant* 2023 – 2025
Brecken Marome → *PhD student at Awh Vogel Lab, University of Chicago* 2023 – 2025

DEVELOPMENT

Certificate in Pillars of Teaching Assistantship, University of California, Santa Barbara 2025 –

Media Coverage

"Brief, scalable fix for overcoming state procrastination" – *Scienmag* ↬
"A two-minute fix for procrastination" – *The Current* ↬