Shivang Shelat

sshelat[at]ucsb.edu, other name: Shibu ↬

Education

University of California, Santa Barbara — 2023 –
PhD, MA Cognition, Perception, & Cognitive Neuroscience
National Science Foundation Graduate Research Fellow

University of California, Santa Barbara — 2019 – 2023
BS Psychological & Brain Sciences *with highest honors*

Selected Honors

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

Experience

Graduate Research Fellow, Attention Lab & Memory, Emotion, Thought, Awareness Lab — Sep. 2023 –
University of California, Santa Barbara, PIs: Dr. Barry Giesbrecht & Dr. Jonathan Schooler

Student Researcher, NASA Ames Research Center, SJSURF — Jun. 2022 – Aug. 2023
Human-Computer Interaction Group, PI: Dr. Jessica Marquez

Research Assistant, Media Neuroscience Lab — Jan. 2021 – Aug. 2022
University of California, Santa Barbara, PI: Dr. Rene Weber

Lab Manager, Memory Emotion, Thought, Awareness Lab — Mar. 2021 – Jun. 2022
University of California, Santa Barbara, PI: Dr. Jonathan Schooler

Student Researcher, NASA Ames Research Center, SJSURF — Jun. 2021 – Sep. 2021
Human-Computer Interaction Group, PI: Dr. Jessica Marquez

Research Assistant, Ashby Lab for Computational Cognitive Neuroscience — Mar. 2020 – Mar. 2021
University of California, Santa Barbara, PI: Dr. Gregory Ashby

Student Researcher, NASA Ames Research Center, SJSURF — Jun. 2020 – Sep. 2020
Increasingly Automated Air Cargo Operations Group, PI: Dr. Richard Mogford

Publications

student mentees underlined, equal contributions marked by asterisk

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

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

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

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

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, 243*(1), 86.

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

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*, 128.

Shelat, S., Marquez, J. J., Zheng, J., & Karasinski, J. A. (2024). Collaborative system usability in spaceflight analog environments through remote observations. *Applied Sciences*, 14(5), 2005.

Shelat, S., Schooler, J. W., & Giesbrecht, B. (2024). Predicting attentional lapses using response time speed in continuous performance tasks. *Frontiers in Cognition*, 3.

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*, 4263. American Institute of Aeronautics and Astronautics.

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*. Springer, Cham.

Young, A., Robbins, I., & **Shelat, S**. (2022). From micro to macro: The combination of consciousness. *Frontiers in Psychology*, 1491.

Presentations

Posters

Shelat, S., Clubb, A. R., Schooler, J. W., & Giesbrecht, B. (accepted). 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

Reviewing (ad hoc)

Cognition and Emotion

Mentees

Alexis Clubb, honors thesis student, assistant for Sage Center for the Study of the Mind 2024 –
→ *lead META Lab research assistant*

Casey Lopez, undergraduate research lead 2024 – 2025
→ *quantitative methodology research assistant with Delwin Carter*

Karina Mijangos Guzman, honors thesis student, URCA grant awardee 2023 – 2025
→ *lead Attention Lab research assistant*

Brecken Marome, honors thesis student, URCA grant awardee 2023 – 2025
→ *PhD student at Awh Vogel Lab, University of Chicago*

Organizations

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

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