Shivang Shelat

sshelat[at]ucsb.edu | Google Scholar | other name: Shibu

Education

2023 – PhD Cognition, Perception, & Cognitive Neuroscience, University of California, Santa Barbara

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

Publications

student mentees are underlined

in prep **Shelat, S.**, Marome, B., Lopez, C., Giesbrecht, B., & Schooler, J. W. (in prep). Mind-wandering during encoding impairs recognition and free recall for memorable and forgettable scenes.

in prep **Shelat, S.**, Gross, M. E., Giesbrecht, B., & Schooler, J. W. (in prep). Social desirability bias shapes false feedback reliance for mind-wandering reports.

in prep **Shelat, S.**, & Giesbrecht, B. (in prep). Closed-loop enhancement of response inhibition across attentional states via experience-dependent capture.

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

2025 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.

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

2024 **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.

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

2022 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.

2022 **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. *Proceedings of the International Conference on Human-Computer Interaction* (pp. 433-445). Springer, Cham.

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

Presentations

Posters

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

2024 **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*.

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

2024 **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*.

2024 **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*.

2024 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

2023 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*.

2023 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*.

Experience

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

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

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

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

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

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

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

Service

Selected Mentees

2024 – **Alexis Clubb**, assistant for SAGE Center for the Study of the Mind, UG Research & Creative Activities applicant

2023 – **Brecken Marome**, honors thesis student, UG Research & Creative Activities grant awardee

2023 – **Karina Mijangos Guzman**, Promise Scholar, UG Research & Creative Activities applicant

Organizations

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

Grants, Honors, & Scholarships

2023 – 2026 **Graduate Research Fellowship ($147,000)**, National Science Foundation

2024 **Departmental Travel Grant ($500)**, University of California, Santa Barbara

2024 **National Eye Institute Early Career Scientist Travel Grant ($600)**, Vision Sciences Society

2023 **Ames Honor Award**, National Aeronautics and Space Administration

2022 **Morgan Award for Research Promise**, University of California, Santa Barbara

2022 **Highest Honors at Graduation (top 2.5% of class)**, University of California, Santa Barbara

2022 **Exceptional Academic Performance Award**, University of California, Santa Barbara

2022 **Distinction in Psychological & Brain Sciences**, University of California, Santa Barbara

2020 **UG Research & Creative Activities Grant ($750)**, University of California, Santa Barbara

2019 **Teledyne Presidential Scholarship Award (CA$5,000)**, Teledyne Technologies