Shivang Shelat

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Education

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

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

Publications

student mentees underlined; equal contributions marked by asterisk

Marome, B.*, **Shelat, S.***, & Schooler, J. W. (submitted). 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 review). The veil of distraction: Mind-wandering and memorability jointly shape visual recognition and recall.

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.

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.

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.

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

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.

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. (submitted). 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*.

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

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

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

Grants, Honors, & Scholarships

Graduate Research Fellowship, National Science Foundation 2023 – 2026
Mayer Award for Outstanding Research Contribution, University of California, Santa Barbara 2025
Departmental Travel Grant, University of California, Santa Barbara 2024
National Eye Institute Early Career Scientist Travel Grant, Vision Sciences Society 2024
Ames Honor Award, National Aeronautics and Space Administration 2023
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 2022
URCA Grant, University of California, Santa Barbara 2020
Teledyne Presidential Scholarship Award, Teledyne Technologies 2019