# 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 are underlined

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

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*. 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. *SpaceCHI 3.0, Human-Computer Interaction for Space Exploration*.

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. *Proceedings of the International Conference on Human-Computer Interaction* (pp. 433-445). 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.**, Schooler, J. W., & Giesbrecht, B. (submitted). 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*.

## 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

## Grants, Honors, & Scholarships

**Graduate Research Fellowship ($147,000)**, National Science Foundation — 2023 – 2026
**Departmental Travel Grant ($500)**, University of California, Santa Barbara — 2024
**National Eye Institute Early Career Scientist Travel Grant ($600)**, 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 ($750)**, University of California, Santa Barbara — 2020
**Teledyne Presidential Scholarship Award (CA$5,000)**, Teledyne Technologies — 2019