



## Sean Hardesty Lewis

- Ai4all Graduate Mentor, Stanford Pre-Collegiate Studies
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### Bio

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#### BIO

Sean Hardesty Lewis is a researcher in embodied AI and robot perception who builds large-scale data, simulation, and sensing systems for world models and decision-making. He is an M.S. student in Information Systems at Cornell Tech, where he is advised by Wendy Ju and Anthony Townsend. His research focuses on world models that connect perception to planning for autonomous systems, with interests in embodied scene understanding, generative simulation, semantic mapping, and uncertainty-aware decision-making. He develops scalable multimodal datasets, real-time sensing systems, and interactive 3D environments, and releases open tools and evaluations that support reproducible research. Before joining Cornell, he earned a B.S. in Mathematics from The University of Texas at Austin, where he conducted research in the Urban Information Lab with Junfeng Jiao. His work has appeared in the proceedings of SIGGRAPH and at AAI and NeurIPS workshops, and his research is supported by the NSF, the City of Austin, and Dell Technologies. He also serves as a Graduate Mentor for Stanford AI4ALL.