

SONIA RAYCHAUDHURI

<https://sonia-raychaudhuri.github.io>

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SUMMARY

I am a PhD student in Computer Science at the [GrUVi Lab](#), in [Simon Fraser University](#), advised by [Dr. Angel Chang](#). I am broadly interested in grounding language in 3D environments. More specifically, I am working to build Embodied AI agents capable of following instructions in human language to navigate in 3D indoor environments.

Earlier I graduated with a B.E. degree in Engineering from [IIST](#) and thereafter worked with TCS and Ericsson as a Software Engineer, before deciding to pursue research in AI.

Keywords	Embodied agents, vision and language navigation, object navigation, multi-object navigation, reinforcement learning, robotic vision
Education	Simon Fraser University Ph.D., Computer Science (2020-2024) IIST, Shibpur, India Bachelor of Engineering, Information Technology (2003-2007)
Teaching Experience	Graduate Teaching Assistant Natural Language Processing, Fall 2021 Graduate Teaching Assistant Grounded Natural Language Understanding, Spring 2021 Graduate Teaching Assistant Natural Language Processing course, Fall 2020
Publications	<u>Language-Aligned Waypoint (LAW) Supervision for Vision-and-Language Navigation in Continuous Environments.</u> S. Raychaudhuri, S. Wani, S. Patel, U. Jain, A. Chang. EMNLP 2021. [project] <u>Motion Annotation Programs: A Scalable Approach to Annotating Kinematic Articulations in Large 3D Shape Collections.</u> X. Xu, D. Charatan, S. Raychaudhuri, H. Jiang, M. Heitmann, V. Kim, S. Chaudhuri, M. Savva, A. Chang, and D. Ritchie. 3DV 2020. [project]

Industry
Experience

Ericsson India Global Services Pvt. Ltd
Senior Software Engineer (2011 – 2019)

Tata Consultancy Services Pvt. Ltd.
Software Engineer (2007 – 2011)

Academic
Service / Peer
Review

Organizing Workshops

Hosted [MultiON challenge](#) for [Embodied AI Workshop](#) at [CVPR 2022](#)

Reviewing for International Conferences

International Conference on Intelligent Robots and Systems (IROS 2022)

Organizing Student-led Groups

Embodied-AI Reading Group at SFU in Spring 2022

Awards /
Recognition

- Amii AI Week Talent Bursary Recipient, 2022 [[webpage](#)]
- Selected for CRA-WP Grad Cohort for Women, 2022 [[webpage](#)]
- Graduate Fellowship, SFU, 2022
- Selected for CRA-WP Grad Cohort for Women, 2021 [[webpage](#)]
- Helmut & Hugo Eppich Family Graduate Scholarship, SFU, 2021
- Computing Science Graduate Fellowship, SFU, 2021
- Graduate Fellowship, SFU, 2021
- Graduate Fellowship, SFU, 2019