

Rishi Vanukuru

ATLAS Institute
University of Colorado Boulder

rishi.vanukuru@colorado.edu
rishivanukuru.com

EDUCATION

- 2022– **University of Colorado Boulder**
Ph.D. in Creative Technology & Design
- 2018–20 **Indian Institute of Technology Bombay**
M.Des. in Interaction Design
- 2014–18 **Indian Institute of Technology Bombay**
B.Tech. in Civil Engineering
Minor in Design

RESEARCH EXPERIENCE

- SPRING 2022 – PRESENT **ATLAS Institute, University of Colorado Boulder**
Graduate Research Assistant & Part-time Instructor
Advisor: Dr. Ellen Yi-Luen Do
Designing Immersive Interfaces for Collaboration and Creativity
- FALL 2020 – SPRING 2021 **IDC School of Design, IIT Bombay**
Research Associate
Advisor: Dr. Jayesh Pillai
Supporting Remote Learning with Mobile Augmented Reality
- SUMMER 2019 **Laval Institute, Arts et Métiers, France**
Research Intern
Advisor: Dr. Simon Richir
Studying Creativity and Design in Virtual Reality

PUBLICATIONS

Journal Articles

- 2022 Torin Hopkins, Suibi Che-Chuan Weng, **Rishi Vanukuru**, Emma Wenzel, Amy Banic, Mark D. Gross, and Ellen Yi-Luen Do. “AR Drum Circle: Real-Time Collaborative Drumming in AR.” In: *Frontiers in Virtual Reality*, 91. doi:10.3389/frvir.2022.847284
- 2021 Sylvain Fleury, **Rishi Vanukuru**, Charles Mille, Killian Poinot, Aurélien Agnès, and Simon Richir. “CRUX: A Creativity and User Experience model.” In: *Digital Creativity*, 32:2 (pp. 116-123). doi:10.1080/14626268.2021.1915339
- 2020 Sylvain Fleury, Aurélien Agnès, **Rishi Vanukuru**, Emma Goumillout, Nicolas Delcombel, and Simon Richir. “Studying the Effects of Visual Movement on Creativity.” In: *Digital Creativity*, 32:2 (pp. 116-123). doi:10.1016/j.tsc.2020.100661

Conference Proceedings

- 2022 S. Sandra Bae, **Rishi Vanukuru**, Ruhan Yang, Peter Gyory, Ran Zhou, Ellen Yi-Luen Do, and Danielle Albers Szafir. “Cultivating Visualization Literacy for Children Through Curiosity and Play.” In: *Proceedings of IEEE Visualization Conference (VIS)*. In Press. [preprint]

Extended Abstracts

- 2020 **Rishi Vanukuru**. “Accessible Spatial Audio Interfaces: A Pilot Study into Screen Readers with Concurrent Speech.” In: *Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems (CHI EA '20)*. doi:10.1145/3334480.3381440

Posters & Demos

- 2022 Torin Hopkins, Suibi Che-Chuan Weng, **Rishi Vanukuru**, Emma Wenzel, Amy Banic, and Ellen Yi-Luen Do. “How Late is Too Late? Effects of Network Latency on Audio-Visual Perception During AR Remote Musical Collaboration.” In: *IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)* (pp. 686-687). doi:10.1109/VRW55335.2022.00194
- 2020 **Rishi Vanukuru**, Amarnath Murugan, and Jayesh Pillai. “Dual Phone AR: Exploring the use of Phones as Controllers for Mobile Augmented Reality.” In: *In 26th ACM Symposium on Virtual Reality Software and Technology (VRST '20)*. doi:10.1145/3385956.3422113
- 2020 **Rishi Vanukuru**, Amarnath Murugan, and Jayesh Pillai. “Dual Phone AR: Using a Second Phone as a Controller for Mobile Augmented Reality.” In: *Adjunct Publication of the 33rd Annual ACM Symposium on User Interface Software and Technology (UIST '20 Adjunct)*. doi:10.1145/3379350.3416139

Workshop Papers

- 2022 **Rishi Vanukuru**, Amarnath Murugan, Jayesh Pillai, and Ellen Yi-Luen Do. “Designing and Studying Social Interactions in Shared Virtual Spaces using Mobile Augmented Reality.” In: *ACM CHI 2022 Workshop on Social Presence in Virtual Event Spaces*. [paper]
- 2022 Torin Hopkins, **Rishi Vanukuru**, Suibi Che-Chuan Weng, Amy Banic, and Ellen Yi-Luen Do. “Augmented Personification of Intelligent Music Tools for Creativity and Collaboration.” In: *ACM CHI 2022 Workshop on Intelligent Music Interfaces*. [paper]
- 2021 Amarnath Murugan, **Rishi Vanukuru**, and Jayesh Pillai. “Towards Avatars for Remote Communication using Mobile Augmented Reality.” In: *IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)* (pp. 135-139). doi:10.1109/VRW52623.2021.00032

AWARDS

- 2022 Dr. Awtar and Teji Singh Graduate Fellowship (\$20,000)
- 2022 SIGCHI Gary Marsden Travel Award (\$1,200)
- 2020 Institute Silver Medal, IIT Bombay (*1st rank in the M.Des program*)
- 2020 1st Position, CHI Student Research Competition (*Graduate category*)

TEACHING & SERVICE

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| Co-Instructor | Introduction to Virtual Reality (2022) |
| Teaching Assistant | Design for Virtual Reality (2019-2021), Engineering Mechanics (2018) |
| Organizing Committee | Lead for Virtual Operations, IndiaHCI 2020 |
| Reviewer | CHI 2023, CHI 2021 Student Research Competition |
| Student Volunteer | UIST 2020, IndiaHCI 2019, TypoDay 2019 |
| Student Mentor | Indian Institute of Technology Bombay, 2016–2018 |

Updated October 2022