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 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: *IEEE Transactions on Visualization and Computer Graphics*, 2022. doi:10.1109/TVCG.2022.3209442

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

Sylvain Fleury, **Rishi Vanukuru**, Charles Mille, Killian Poinsot, 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

Sylvain Fleury, Aurélien Agnès, **Rishi Vanukuru**, Emma Goumillout, Nicolas Delcombel, and Simon Richir. "Studying the Effects of Visual Movement on Creativity." In: *Thinking Skills and Creativity*, 36, 100661. doi:10.1016/j.tsc.2020.100661

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Extended Abstracts

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
- Rishi Vanukuru, Amarnath Murugan, and Jayesh Pillai. "Dual Phone AR: Exploring the use of Phones as Controllers for Mobile Augmented Reality." In: 26th ACM Symposium on Virtual Reality Software and Technology (VRST '20). doi:10.1145/3385956.3422113
- 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

- 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]
- 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 Ist Position, CHI Student Research Competition (Graduate category)

TEACHING & SERVICE

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 November 2022