

Ruhan YANG

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EDUCATION

University of Colorado Boulder

- Bachelor of Science, Mechanical Engineering major
Applied Mathematics minor January 2015 – May 2019
- Master of Science, Creative Technologies and Design August 2019 – May 2021
- Doctor of Philosophy, Creative Technologies and Design August 2021 - May 2025

PUBLICATION

S. Sandra Bae, Rishi Vanukuru, Ruhan Yang, Peter Gyory, Ran Zhou, Ellen Yi-Luen Do, Danielle Albers Szafir. 2022. Cultivating Visualization Literacy for Children Through Curiosity and Play. *In Proceedings of IEEE VIS 2022*, <https://doi.org/10.48550/arxiv.2208.05015> (Oct.16-21, 2022—Oklahoma City, Oklahoma).
Sandra Bae, Ruhan Yang, Peter Gyory, Julia Uhr, Danielle Albers Szafir, Ellen Yi-Luen Do. Touching Information with DIY Paper Charts & AR Markers, (2021) in *IDC '21: Interaction Design and Children*, June 2021 Pages 433–438, 24 June 2021, <https://dl.acm.org/doi/10.1145/3459990.3465191>
Ruhan Yang, Cody Candler, and Ellen Yi-Luen Do. 2020. EdBoard: An Educational Breadboard, *In Proceedings of the Interaction Design and Children Conference 2020 (IDC'20)*. DOI: <https://doi.org/10.1145/3397617.3397832> (London, England (virtual)—June 17-24, 2020).

AWARDS

- Distinguished Graduate Student Awards 2021
- ATLAS Scholarship 2019-2021
- College of Engineering Summer Session Incentive Award 2016

SKILLS

Computer: SOLIDWORKS, Autodesk Fusion 360, CorelDRAW
R, Processing, P5.js, Python, MATLAB
Microsoft Excel, Word, PowerPoint
Machine: Lathe, Mill, Saw, Drill, Laser Cutter, Vinyl cutter

EXPERIENCE

EdBoard Technologies LLC

- Cofounder, Product Design 2017 - till now

ATLAS Institute, University of Colorado at Boulder

- Instructor, ATLS 3100 FORM 2022 Fall
- Teaching Assistant, ATLS 3100 FORM 2021 Fall
- Capstone Project Sponsor 2021 - 2022
- Graduate Student Mentor 2021 - 2022
- Organizer, T9 Hacks 2019- 2022

<u>Graduate School, University of Colorado at Boulder</u>	
➤ Graduate Student Mentor	2022 - till now
<u>CU Science Discovery, University of Colorado at Boulder</u>	
➤ Lecturer	2022 Summer
<u>YOU'RE@CU Research Program, University of Colorado at Boulder</u>	
➤ Graduate Mentor	2022 Spring
<u>Student Academic Success Center, University of Colorado at Boulder</u>	
➤ Instructional Assistant, Tutor	2017 - 2019
<u>The Child Language Learning Lab, University of Colorado at Boulder</u>	
➤ Research Assistant	2016 Summer

PROJECTS

<u>EdBoard</u>	2017 - till now
An educational breadboard. It is a new design of breadboard that is affordable, accessible, and engaging to younger audiences, in order to increase diversity and remove the barriers of entry in K-12 STEM education. EdBoard won second place in the People's Choice Award at the 2017 Design Expo and fourth place in the 2020 New Venture Challenge.	
<u>e-Trombone</u>	2020
An electronic trombone built during the 2020 Georgia Tech's (GT) annual Moog Hackathon. The e-Trombone was built with PVC pipes sprayed with glossy paint to simulate a metallic look and inserted wind sensors, allowing players to create brass-like sounds through different blowing techniques. The e-Trombone won the first place in the hackathon and became one of the finalists of GT's prestigious Guthman Musical Instrument Competition.	
<u>Disabled Swimmer Lift System</u>	2018 - 2019
A special swimmer lift system designed for the QL+ challenger, Travis Mills Foundation. Five of us built this project as our as mechanical engineering capstone project in senior year. We are challenged to develop a portable lift to get swimmers with disabilities out of the water and onto a floating dock.	