

# Ruhan YANG

(720)539-4180  
Boulder, Colorado

Ruhan.Yang@colorado.edu  
[ruhanyang.com](http://ruhanyang.com)

## 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

## TECHNICAL SKILLS

Computer: SOLIDWORKS, Fusion 360  
CorelDRAW, R, Processing, P5.js

Machine: Lathe, Mill, Saw, Drill, Laser Cutter, Circuit, Vinyl cutter

## PROJECTS

EdBoard Technologies 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.

e-Trombone 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.

Disabled Swimmer Lift System 2018 - 2019

A special swimmer lift system designed for the QL+ challenger, Travis Mills Foundation. Five of us built this project as our 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.

## EXPERIENCE

CU Science Discovery, University of Colorado at Boulder 2022 - till now

- Lecturer

EdBoard Technologies LLC 2017 - till now

- Cofounder, Product Design

Student Academic Success Center, University of Colorado at Boulder 2017 - 2019

- Instructional Assistant, Tutor

The Child Language Learning Lab, University of Colorado at Boulder 2016

- Research Assistant

## **PUBLICATION**

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).

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>