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Profile

Graduate student at the MIT Media Lab. Interested in bringing interactive affordances to the physical world, especially in context of social identity, spatial interfaces, and cosmetics. Please see CV or website for all publications and projects.

Education

Massachusetts Institute of Technology

Candidate for M.S in Media Arts and Sciences

June 2019 - June 2021 (expected)

MIT Media Lab - Object Based Media

Massachusetts Institute of Technology

September 2015 - June 2019

B.S in Computer Science and Engineering with Design

Experience

Research Assistant; MIT Media Lab - Object Based Media

2018 - Present

Working to examine the intersection between creative and display technologies. Individual research currently focusing on scattering models for alternatives to interior lighting as well as interactive, identity affirming experiences around cosmetics and technology. Group research including repairing old demonstrations and preparing an exhibition piece for the MIT Museum centered around interactive coral. Mentoring undergraduate students.

Research Supervisor

2019 - Present

Mentoring multiple undergraduates with their research and projects.

Co-Instructor; MIT Department of Urban Planning

Spring 2019

Developing a one month and sub sequentially semester long course with Ira Winder. Course taught computational urban science. Giving lectures on GIS data processing and computation techniques and data structures in Java and using software such as ArcGIS.

Teaching Assistant

Fall 2016 - Spring 2019

Assisted with multiple classes. See CV for details.

Research Assistant, MIT Media Lab - City Science; Cambridge, MA

2015 - 2018

Programming software for tangible intervention systems. Formulating math models for urban simulation. Developing algorithms to make complex systems more realistic and efficient for real time changes and interaction. Processing, analyzing, and visualizing large sets of spatial data for user intervention. Utilizing computer vision, embedded electronics, and projection mapping. Managing projects, work sessions with member companies, and off site deployments to a variety of academic and industrial institutes internationally.

Skills

Software Java, Python, C++, C, JavaScript, Processing, Unity

Web Javascript, CSS, HTML, SQL, Ruby on Rails, three.js, OpenGL

Visualization Processing, p5.js, d3.js, Tableau

Electronics Arduino, Eagle, PID, general electronics and controllers, circuit design Design CAD (Rhinoceros and Grasshopper), Photoshop, Illustrator, Lightroom,

InDesign, Drafting

Fabrication Laser cutter, 3D Printer, CNC, Woodworking, Hand tools, Waterjet

Misc. QGIS, ArcGIS, Madmapper, Projection mapping, basic optics equipment