

Research Interests

Wireless and mobile systems, Computer networking, HCI

Education

University of Washington 2016 - Present

2nd Year Ph.D., in Computer Science & Engineering

Advisor: Shyam Gollakota

Dartmouth College 2012 - 2015

A.B. in Computer Science (High Honors), Minor in Digital Arts

Advisor: Xia Zhou

Thesis: 3D Printing Your Wireless Coverage

Publications

Conference

1. DeepSense: Enabling Carrier Sense in Low-Power Wide Area Networks Using Deep Learning

Justin Chan, Anran Wang, Arvind Krishnamurthy Shyam Gollakota

In submission.

2. SurfaceX: Enabling Ubiquitous Surface Networking

Justin Chan, Anran Wang, Vikram Iyer, Shyam Gollakota

In submission.

3. [3D Printing Wireless Communication \[Video\]](#)

Vikram Iyer (co-primary), **Justin Chan (co-primary)**, Shyam Gollakota

SIGGRAPH Asia, 2017.

4. [Data Storage and Interaction Using Magnetized Fabric \[Video\]](#)

Justin Chan, Shyam Gollakota

UIST, 2017.

5. [Customizing Indoor Wireless Coverage via A 3D-Fabricated Reflector](#)

Xi Xiong, **Justin Chan**, Ethan Yu, Nisha Kumari, Ardan Amiri Sani, Changxi Zheng, Xia Zhou

BuildSys, 2017

Workshop

1. [3D Printing Your Wireless Coverage. \(Hot Paper Award\) \[Video\]](#)

Justin Chan, Changxi Zheng, and Xia Zhou.

HotWireless, 2015

Poster

1. [3D Printing Your Wireless Coverage. \(MobiCom Student Research Competition Winner\)](#)

Justin Chan, Changxi Zheng, and Xia Zhou.

Mobicom, 2015

Awards

- Hot Paper Award, HotWireless 2015
- MobiCom Student Research Competition Winner, 2015
- Gazzaniga Family Science Award Nominee, 2015
The only thesis to represent the CS department at a university wide competition.
- Citations for academic performance: *Computer Networks, Computer Architecture, Computer Graphics, Artificial Intelligence, Projects in Digital Arts*

Work Experience

Microsoft

Software Engineer (Cloud computing team) 2015 - 2016

- Cut system delay by 80%. Improvement presented to executives for quarterly review.

Software Engineering Intern 2014

- Received a "high return offer" sent to top ~20% of interns

Service

- [UW Systems and Networks Seminar](#)
- IMC Shadow PC 2017

Undergraduate Mentorship

- Darin Chin (Spring 2017 - present) Smartphone packet sniffing.
- Sandeep Chowdary (Winter 2017 - present) Magnetic localization with a smartphone.

Teaching

University of Washington

- Intro to Computer Communication Networks

Dartmouth College

- Software Implementation and Design
- Problem Solving via OOP
- Introduction to Programming and Computation

Patents

- Data Storage and Interaction using Magnetized Fabric
Shyam Gollakota, Justin Chan
U.S. Provisional Patent Application No. 62/491,669 filed 4/28/2017
- 3D Printing Wireless Communication
Shyam Gollakota, Vikram Iyer, Justin Chan
U.S. Provisional Patent Application No. 62/466,822 filed 3/3/2017