

Alex Yen

2234 EBU3
San Diego, CA 92092
<https://www.alexlyyen.com/>

Updated 10/31/24

RESEARCH INTERESTS

Mobile Computing, Wireless Communication, IoT Connectivity, Infrastructure Development

EDUCATION

University of California San Diego , San Diego, CA Ph.D. in Computer Science Advisor: Pat Pannuto	2020–Present
University of California San Diego , San Diego, CA M.S. in Computer Science Advisor: Pat Pannuto	2020–2023
University of Massachusetts, Amherst , Amherst, MA B.S. in Computer Engineering Honors Thesis Advisor: Jay Taneja Summa Cum Laude	2016–2020

AWARDS AND HONORS

National Science Foundation Graduate Research Fellowship	2022
UMass Amherst ECE Award of Excellence (3%)	2020
Best Paper Nominee, BuildSys'19	2019
UMass Amherst Commonwealth Honors College: Honors Research Grant	2018

EXPERIENCE

University of California San Diego Graduate Student Researcher Advisor: Pat Pannuto	2020–Present
T-Mobile Research Intern: State-of-the-Art Applications Towards Ambient-IoT Advisor: Jun Liu	2024
STIMA Lab Research Assistant Advisor: Jay Taneja	2020

Nimbus Lab
REU Summer Research Scholar
Advisor: Carrick Detweiler

2019

University of Massachusetts, Amherst
Undergraduate Research Assistant
Advisor: Jay Taneja

2018–2020

CONFERENCE PUBLICATIONS

1. **Alex Yen**, Zeal Shah, Ben Ochoa, Pat Pannuto, and Jay Taneja. “EffiSenseSee: Towards Classifying Light Bulb Types and Energy Efficiency with Camera-Based Sensing.” In the 9th ACM International Conference on Systems for Energy-Efficient Built Environments, Cities, and Transportation (BuildSys’22), November 2022.
2. Dhananjay Jagtap*, **Alex Yen***, Huanlei Wu, Aaron Schulman, and Pat Pannuto. 2021. Federated Infrastructure: Usage, Patterns, and Insights from “The People’s Network”. In ACM Internet Measurement Conference (IMC ’21), November 2021.
3. Zeal Shah, **Alex Yen**, Ajey Pandey, and Jay Taneja. “GridInSight: Monitoring Electricity Using Visible Lights.” In the 6th ACM International Conference on Systems for Energy-Efficient Built Environments, Cities, and Transportation (BuildSys’19), November 2019. **Best Paper Nominee.**

WORKSHOP PUBLICATIONS

1. Alex Bellon, **Alex Yen**, and Pat Pannuto. 2023. TagAlong: Free, Wide-Area Data-Muling and Services. In The 24th International Workshop on Mobile Computing Systems and Applications (HotMobile ’23), February 22–23, 2023, Newport Beach, CA, USA.
2. **Alex Yen**, Bryse Flowers, Wenshan Luo, Nitish Nagesh, Peter Tueller, Ryan Kastner, and Pat Pannuto. 2021. A UCSD view on replication and reproducibility for CPS & IoT. In Proceedings of the Workshop on Benchmarking Cyber-Physical Systems and Internet of Things (CPS-IoTBench ’21), May 2021.

TALKS

Mobile Infrastructure for the Internet of Things.

Lab11, UC Berkeley

Oct. 2024

EffiSenseSee: Towards Classifying Light Bulb Types and Energy Efficiency with Camera-Based Sensing”.

ACM BuildSys’22, Boston

Nov. 2022

Federated Infrastructure: Usage, Patterns, and Insights from “The People’s Network”.

Center for Networked Systems Research Review, UCSD

Apr. 2022

Federated Infrastructure: Usage, Patterns, and Insights from “The People’s Network”.

ACM IMC’21

Nov. 2021

A UCSD view on replication and reproducibility for CPS & IoT.

CPS-IoTBench’21

May. 2021

Best Presentation Runner-Up.

POSTERS AND DEMOS

1. Alex Bellon, **Alex Yen**, and Pat Pannuto. 2023. TagAlong: Free, Wide-Area Data-Muling and Services. In The 24th International Workshop on Mobile Computing Systems and Applications (HotMobile '23), February 22–23, 2023, Newport Beach, CA, USA.
2. Alex Bellon, **Alex Yen**, Pat Pannuto. “TagAlong: A Free, Wide-Area Data-Muling Service Built on the AirTag Protocol.” In the 20th ACM Conference on Embedded Networked Sensor Systems (SenSys'22), November, 2022.
3. Zeal Shah, **Alex Yen**, Ajey Pandey, Jay Taneja. “GridInSight: Monitoring Electricity Using Visible Lights.” In the 2nd Annual ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS'19), July 2019.

SERVICE AND ACTIVITIES

UCSD NSF GRFP Workshop, Organizer	2022, 2023, 2024
ENLACE Program, Mentor	2022
UCSD GradWIC Mentorship Program, Mentor	2022, 2023
UCSE CSE PhD Visit Day, Embedded-Group Lead Organizer	2022, 2023, 2024
Diversity, Equity, and Inclusion PhD Application Review	2021, 2023
UMass Amherst Science Olympiad Mentoring, Head Organizer	2019
HackUMass VI, Lead Hardware Inventory Manager	2018
HackUMass V, Lead Hardware Inventory Manager	2017