

Alex Yen

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

Updated 3/09/23

RESEARCH INTERESTS

Mobile Computing, Embedded Systems, Wireless Communication

EDUCATION

University of California San Diego, San Diego, CA 2020–Present
Ph.D. in Computer Science
Advisor: Pat Pannuto

University of Massachusetts, Amherst, Amherst, MA 2016–2020
B.S. in Computer Engineering
Honors Thesis Advisor: Jay Taneja
Summa Cum Laude

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 2020–Present
Graduate Student Researcher
Advisor: Pat Pannuto

STIMA Lab 2020
Research Assistant
Advisor: Jay Taneja

Nimbus Lab 2019
REU Summer Research Scholar
Advisor: Carrick Detweiler

University of Massachusetts, Amherst 2018–2020
Undergraduate Research Assistant
Advisor: Jay Taneja

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

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.

Towards Mapping the Electric Grid with Visible Lights.

Center for Networked Systems Research Review, UCSD

Oct. 2020

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

NSF GRFP Application Assistance, Organizer	2022
ENLACE Program, Mentor	2022
UCSD GradWIC Mentorship Program, Mentor	2022, 2023
UCSE CSE PhD Visit Day, Embedded-Group Lead Organizer	2022, 2023
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