# Alex Yen

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Updated 1/17/23

## 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

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|---|---|
| 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 Bellon, Alex Yen, and Pat Pannuto. 2022. Demo Abstract: 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 6–9, 2022, Boston, MA, USA. ACM, New York, NY, USA.

3. **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

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| ENLACE Program, Mentor | 2022 |
| UCSD GradWIC Mentorship Program, Mentor | 2022 |
| UCSE CSE PhD Visit Day, Embedded-Group Lead Organizer | 2022 |
| Diversity, Equity, and Inclusion PhD Application Review | 2021 |
| UMass Amherst Science Olympiad Mentoring, Head Organizer | 2019 |
| HackUMass VI, Director of Hardware | 2018 |
| HackUMass V, Director of Hardware | 2017 |