

# Alex Yen

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<https://www.alexlwyen.com/>

Updated 11/11/22

## RESEARCH INTERESTS

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Mobile Computing, Embedded Systems, Wireless Communication

## EDUCATION

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**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

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**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

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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

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1. **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

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**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

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1. 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.
2. 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