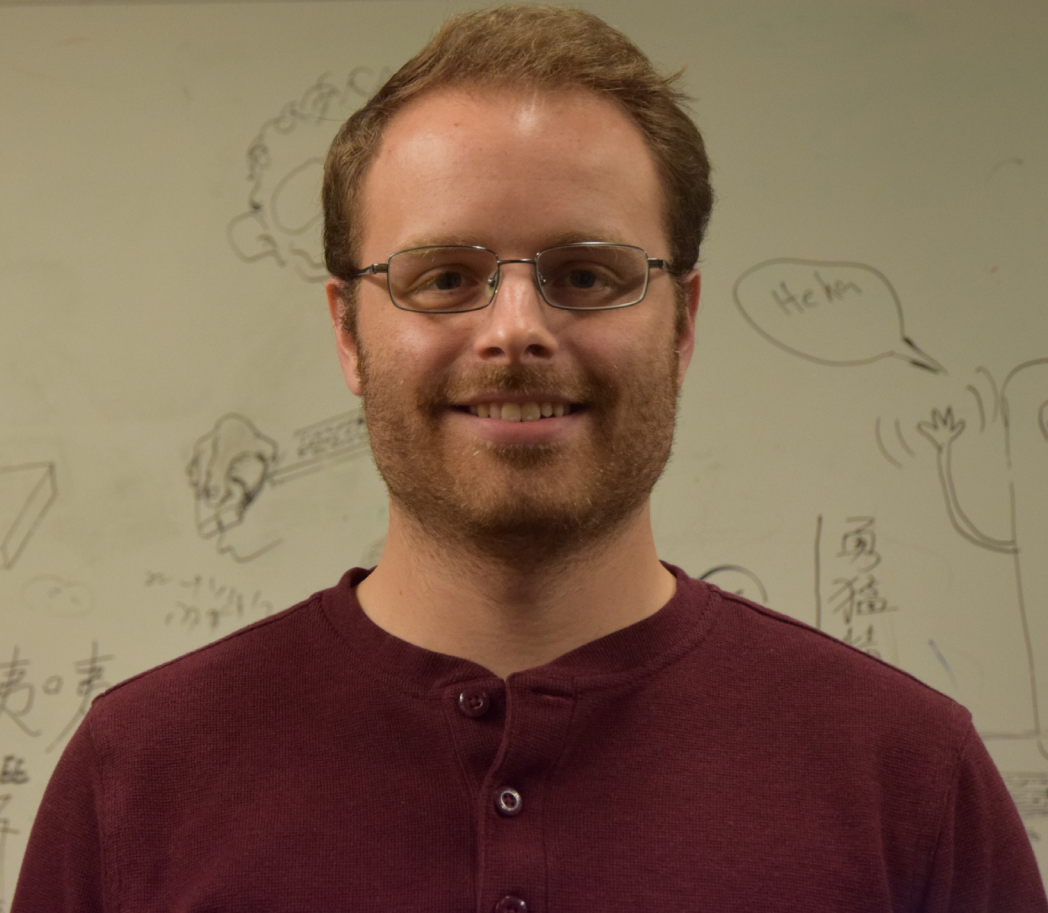


UW ECE STUDENT SPOTLIGHT



CHASE DOWLING, Ph.D.



Chase Dowling

Ph.D. Electrical Engineering, 2019

Honolulu, HI, USA

Chase's research specialization falls within the Power and Energy Systems group, focusing on applications of Machine Learning and Artificial Intelligence to civil infrastructure, especially on power grids and transportation networks. His dissertation covers the issue of urban congestion, narrowing down to traffic and parking, and how emerging technologies in transportation are adapted to impact this complex social issue. He outlines the problem, saying, "The power grid was not designed for the electrical grid to be mobile. I am looking at how we use the infrastructure, to adapt the old system to new technologies without having to start from scratch." His background with the Department of Energy at the Pacific Northwest National Laboratory has influenced his area of focus, seeking to continue working as a research scientist, bridging the gap between academia and research positions.

He traveled to Melbourne, Australia and presented his work with ECE for the Melbourne Conference on Control Systems.

Chase provides this note of advice to potential graduate students, to "Don't box yourself in and follow the prescribed path. Be willing to explore opportunities that you would otherwise not be interested in or associated with; look at the deeper connections and build connections." The ECE Degree opens you up to the whole world of possibility.