

EDUCATION

- **National University of Singapore (Singapore): *Ph.D. Engineering*** 2018-Present
Thesis: Cohort-based Personal Comfort Models for HVAC Occupant-Centric Control
- **Carnegie Mellon University (USA): *Master of Info. Sys. Mngmt.*** 2015-2016
Relevant coursework: Data Mining; Machine Learning; Data Structures and Algorithms
- **Pontifical Catholic University of Peru (Peru): *B.Sc. Electronic Eng.*** 2009-2014
Relevant coursework: Electronic Design; Computer Architecture; Web Technologies

WORK AND RESEARCH EXPERIENCE

- **College of Design and Engineering, National University of Singapore** Singapore, SG
Postdoctoral Research Fellow (BUDSLab) 08/2022 – Present
 - Led the research group projects in machine learning, computer vision, and agent-based modeling.
 - Mentored **3** Ph.D. students in research projects and their theses.
 - Taught laboratory sessions for graduate and undergraduate modules in Data Science and AI.
- **College of Design and Engineering, National University of Singapore** Singapore, SG
Graduate Research Assistant (BUDSLab, SinBerBEST2) 08/2018 – 08/2022
 - Performed applied machine learning research on Building Energy data (**15** papers published, **8** first author).
 - Mentored **9** B.Sc. Project and Facilities Management and **1** M.Sc. Computer Science students in their theses.
 - Created main content and assignments for MOOC [Data Science for Construction, Architecture and Engineering \(2021 edX Prize Finalist for Innovation in Online Teaching\)](#).
- **VIT Initiative, LLC. (Acquired by SWORD Health)** Pittsburgh, US
Firmware & Mobile Developer 12/2017 – 06/2018
 - Designed and performed demonstration of finalized wearable product on clients' site and funding events.
 - Designed and developed mobile application for wearable products.
- **Civil and Environmental Engineering Dept., Carnegie Mellon University** Pittsburgh, US
Graduate Research Assistant, Intelligent Infrastructure Research Lab (INFERLab) 04/2017 – 06/2018
 - Collaborated in DOE funded project about Building Energy Efficiency (**3** papers published, **1** first author).
 - Designed and implemented a data preparation and evaluation framework with Bosch U.S. research scientists for RGBD building occupancy data.
 - Designed and programmed an AC waveform power meter based on an Atmega328p for the Raspberry Pi.
- **Banking Commission of the Republic of Marshall Islands** Majuro, MH
Technology Consultant 05/2016 – 07/2016
 - Assessed and improved technology infrastructure and information management stack ([Final Report](#)).
 - Designed and implemented data collection and analysis solution for the Financial Intelligence Division.

UNIVERSITY & PUBLIC ENGAGEMENT

- **Office of Student Affairs, NUS** Singapore, SG
Resident Assistant and Secretary 06/2020 - 06/2022
- **Building Research Students Network, CDE-NUS** Singapore, SG
President; former Treasurer 08/2019 - 07/2022
- **Office of Student Affairs, NUS** Singapore, SG
Mentor at Teach with Heart@Tanglin Secondary School 07/2019 - 10/2019
- **Internet of Things Club, Carnegie Mellon University** Pittsburgh, PA
Co-founder and Technical Director 06/2016 - 12/2016
- **Latino Graduate Student Association, Carnegie Mellon University** Pittsburgh, PA
President; former Treasurer 08/2015 - 12/2016

SKILLS

- **Languages:** Spanish, English, French, Chinese
- **Programming & Scripting languages:** Python, Bash, SQL, JAVA, R, MATLAB, C/C++