

Teng (Janton) Zeng

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EDUCATION

University of California, Berkeley, Berkeley, CA
B.S. in Energy Engineering major and EECS minor

August 2014 – May 2018 (Expected)

Skills:

Arduino, CSS, Java, JS, MATLAB, PostgreSQL, Python, R, Scheme
Convex Optimization, Data Mining, Linear Programming, Machine Learning, System theory

PROFESSIONAL EXPERIENCE

Energy, Controls, & Applications Lab (eCAL), Berkeley, CA
Student Research Assistant

August 2017 - present

- Data scraping 8,800+ charging stations, 80,000+ charging piles daily utilization data including time, duration, price, power, etc.
- Data analysis on current EV itineraries flow map, EV charging stations deployment at different (city-, state-, country-) scales, EV drivers charging behaviors, and characterization of charging stations.
- Developed six distributed data mining systems, collecting charging infrastructure information (80+ categories).
- Developed centralized PostgreSQL database for time-series data storage.

Lawrence Berkeley National Laboratory (LBNL) Grid Integration Group, Berkeley, CA
Student Research Assistant

August 2015 - May 2017

- Individual research project on V2G ancillary service (frequency regulation) and penalty mechanism. Looked for optimal bidding strategy with risk averse model and EV battery degradation cost taken into account.
- Plug-in Hybrid Electric Vehicles (PHEV) Lithium-ion battery degradation simulation and analysis.
- Python based battery degradation simulation model extension to V2G-Sim project (2015 R&D 100 awards).

Technische Universität München (TUM)-CREATE, RP 8 – Energy Management, Singapore
Student Research Assistant

May 2016 – August 2016

- Developed MySQL database for Nanyang Technological University (NTU) buses energy consumptions data storage and communications between MATLAB and MySQL.
- NTU energy consumption analysis, identified trends and patterns in each NTU buses, and sought potential improvements to prevent buses from overloading.

LEADERSHIP EXPERIENCE

CAL Wushu (Chinese Martial Arts), Berkeley, CA
Team Leader

August 2016 – Present

- Team A (varsity) member. Designed and organized 25th annual Chinese Martial Arts Tournament at UC Berkeley.
- Competed at Wushu Collegiate 2017 in UW, Seattle and won 2 gold medals representing UC Berkeley.

Exposure (Photography), Berkeley, CA
Crew Member

February 2016 - Present

- Arranged photography field trips to Point Reyes, U.S. Route 1, etc.
- Arranged info session and general biweekly meetings.

Berkeley Energy & Resources Collaborative, Berkeley, CA
Head of Marketing

September 2015 – May 2016

- Organized water and energy related workshops, invited guest speakers for casual seminar and arranged field trips to EBMUD and Tesla factory.

SKILLS AND INTERESTS

- Languages: Professional fluency in English, native in Cantonese, Mandarin and Teochew
- Technicals: Adobe Photoshop, Excel, Word, PowerPoint, Pages, Numbers, Google Docs
- Interests: Basketball, martial arts, photography, singing, violin, and weight-training