

# Teng 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

Skills:

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

## PROFESSIONAL EXPERIENCE

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

May 2017 - present

- Research topic: charging station optimal planning and operation, station load forecasting.
- Exploratory 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.
- Data scraping 86,000+ charging piles daily utilization data including time, duration, price, power, etc.
- Developed 10 distributed data mining systems, collecting charging infrastructure information (80+ categories) and one 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

- Research topic: optimal bidding strategy with risk averse model and EV battery degradation cost taken into account.
- Developed plug-in hybrid electric vehicles lithium-ion battery degradation model in Python scripts.
- Publication: D. Wang, J. Coignard, **T. Zeng**, C. Zhang, S. Saxena "Quantifying electric vehicle battery degradation from driving vs. vehicle-to-grid services." J Power Sources, 332 (2016), pp. 193-203 (Gscholar 40 citations).

**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 consumption data storage and bridged communication 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 – May 2017

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

**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.

**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.

## SKILLS AND INTERESTS

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