

Fudong Han

AY 2016-17 All-S.T.A.R. Fellow

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Being a research assistant supervised by Dr. Chunsheng Wang established my professional skills towards a successful researcher. I initiated all-solid-state battery project in our group in 2013, and up to now two first-author papers have been published on *Advanced Materials* (Impact factor: 17.493) and *Advanced Energy Materials* (Impact factor: 16.146), respectively. Particularly, my work on the single-material battery was considered a revolutionary progress in the area of all-solid-state batteries, and attracted broad reports from both public media and professional societies. Based on this work, I wrote a proposal to Army Research Office, which was awarded (\$450,000 for three years). My research assistantship also helped me get the Harry K. Wells Fellowship to support my proposal on developing the first 5-V class solid-state battery. These achievements offered me more confidences to work on more difficult problems.

Outside the lab, I was serving a teaching assistant for two semesters. The most important thing I learned from teaching is the gap between knowing and teaching out. I was awarded “TA of the year” from our department for my teaching efforts. I was also helping to mentor three undergraduate students, one of whom was selected in the Engineering Honors Program. In addition, my assistantship also provided me with service opportunities. For example, I have been assisting with the batteries formation for our Chem-E car team since 2014. My assistantships also enabled me to join the prestigious Future Faculty Program, which will definitely make me one-step closer to my long-time dream of being a professor.