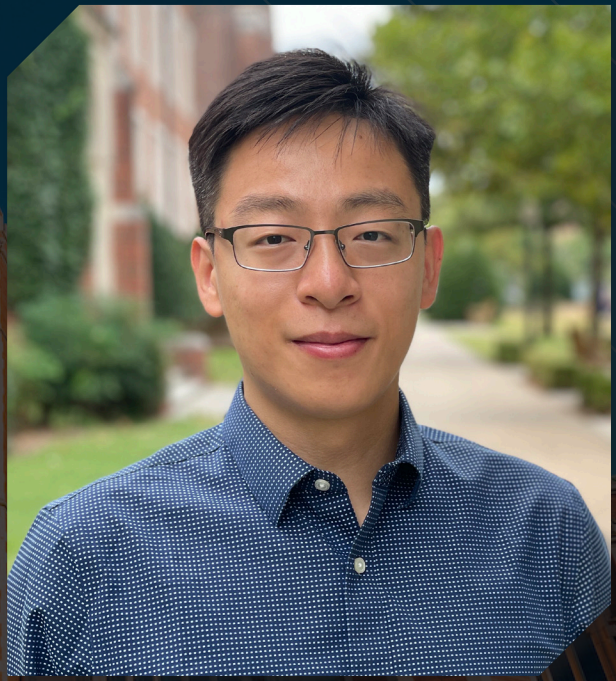
GALLOGLY COLLEGE OF ENGINEERING
AEROSPACE AND MECHANICAL ENGINEERING
The UNIVERSITY *of* OKLAHOMA

DONG ZHANG

Assistant Professor

Energy Systems and Controls Laboratory



Addresses societal grand challenges in:

- electric vehicle Lithium–ion batteries
- renewable energy and energy storage networks
- smart, sustainable, and green transportation

ADVANCED ENERGY STORAGE & SYSTEMS

Dong Zhang, Ph.D. is an assistant professor in the School of Aerospace and Mechanical Engineering at the University of Oklahoma. His lab brings together a diverse consortium of knowledge to understand how advanced control techniques push the boundaries of energy storage systems and how renewable energy resources can be integrated into the grid and transportation systems in an efficient and sustainable manner.

Supported by the U.S. Department of Energy, Zhang leads a multi-organizational project aimed at pioneering the use of shared autonomous electric vehicles in rural areas of Oklahoma to enhance the efficiency, accessibility, and equity of public transportation systems. He is also internationally recognized for his research in developing battery monitoring techniques and control platforms to increase usable capacity and enhance charging by improving the ability to estimate battery health in real-time, to predict and manage the impact of charge and discharge cycles on battery health, and to minimize long-term battery degradation. He is a co-author of a paper recognized with the ASME Energy System Best Paper Award.

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Learn more:
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865 Asp Ave.
Norman, OK 73019

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