



The Spring 2023 Faculty Spotlight is on...

Dr. Hongrui Liu



Dr. Hongrui Liu joined SJSU as an Assistant Professor in 2017. She received her MS from SJSU and PhD from University of Washington, both in Industrial and Systems Engineering (ISE). Her primary research interests are optimization modeling, algorithms, data analytics and applications in supply chain and energy industry. Before coming to SJSU, she worked for 7 years in the energy management industry, developing energy market management systems for independent transmission system operators (ISOs). Her collaboration with ISOs continued after she joined SJSU and she has been awarded more than 200K grants from ISO New England. The projects she contributed include the integration of renewables and demand response resources in the electricity network, smart grid development to improve grid operational efficiency and energy cost of consumers, and development and implementation of a foundational platform to support the exponentially complex, future energy system. She also assisted ISO New England in developing training materials for new hires in electricity management.

Dr. Liu devoted much effort to serving students and the professional society. Her research engaged with students resulting in various scholarships (Donald Beall Award, Davidson Student Scholar, Star Fellow), 12 peer-reviewed conference proceedings, and a Mineta Transportation Institute grant. She served on the Editorial Board of the International Journal of Sustainable Society (IJSSoc), and in the Program Committee for Artificial Intelligence and Machine Learning, IEEE International Conference on Industrial Engineering and Engineering Management, and Silicon Valley Women in Engineering.

She is currently the ISE SAGE Program Coordinator, and the Academic Program Coordinator of Lockheed Martin MSE in Business Analytics appointed by Engineering Extended Studies. She is a special-term professor at Guangdong University of Technology in China since 2018 to collaborate in research activities and provide consultation services.

For relaxation, Dr. Liu enjoys reading and road trips....and collects jigsaw puzzles.