



The Spring 2021 Faculty Spotlight is on...

Dr. Yupeng Wei



Dr. Yupeng Wei joined SJSU as an Assistant Professor of Industrial and Systems Engineering in 2020. He received the B.S. degree from Beijing Institute of Technology, Beijing, China, in 2014, the M.S. degree from the University of Florida, Gainesville, FL, USA, in 2016, and the Ph.D. degree from the Pennsylvania State University, State College, PA, USA all in Industrial Engineering. His research interests focus on developing optimization models and deep learning algorithms for large-scale data with complex heterogeneous data structures. His research aims to extract latent variables or representations for the purpose of quality monitoring of complex systems, early detection of system anomalies, and system degradation prognostics and decision making. Dr. Wei is a member of ASME, INFORMS, IISE, and IEEE.

In addition to his teaching assignment, starting from Fall 2020, he has served on the research committee in the College of Engineering. He has also helped to determine Davidson Student Scholars' (DSS) rubrics, decide article processing charge (APC) policy, review proposals for the DSS program, and review project proposals of the Small Group Research Projects (SGP).

Dr. Wei is also participating in an inter-university project collaboration with the University of Central Florida, Pennsylvania State University, and the University of Tennessee on a research project. This project focuses on data analysis and deep learning for industrial engineering applications, which aims at estimating battery health conditions and predicting the remaining useful life of the lithium-ion battery to facilitate the reliable design of battery systems and safety operations, and detecting malware for industrial systems to address security issues in the context of smart manufacturing and Industry 4.0.

Yupeng and his wife, Wenmeng Gao, met as undergraduate Industrial Engineering students in China. After completing their IE Bachelor's degrees, they attended the University of Florida where they both completed the MS in Industrial Engineering. They now live in Atlanta, where Wenmeng Gao is a Project Manager with Veritiv, and is also enjoying the new experience of being a mom which began some 7 months ago. Dr. Wei had the interesting experience of joining the ISE Department at SJSU just as the Covid-19 shelter in place protocols went into effect. While living with his family in Atlanta, he began his SJSU career with a fully on-line approach to all of his class, research, and committee activities. We look forward to his joining us in person next fall.