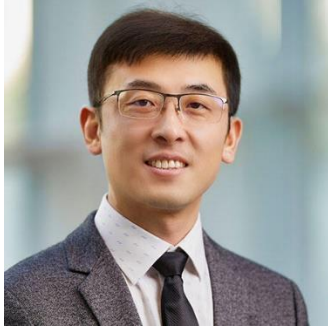


Biography:



Dr. Shengjie (Patrick) Zhai is an Assistant Professor of Electrical and Computer Engineering at the University of Nevada, Las Vegas. His research contributions include the development of micro-engineered multichannel organ-on-a-chip devices, AI-reinforced biomimetic biosensors, and novel biomaterials for personal health wearable monitor bioelectronics (PHWMB). Dr. Zhai has authored over 20 peer-reviewed articles published in respected journals such as *Advanced Optical Materials*, *ACS Applied Materials & Interfaces*, *Advanced Science*, *Frontier* and *IEEE Transactions on Neural Systems and*

Rehabilitation Engineering and holds nine patents in his field.

Among his accolades, Dr. Zhai is a recipient of two National Science Foundation Fund Awards (2021, 2019), the Nevada Governor's Office of Economic Development Fund Award (2020), the NASA-Colgate Funding Award (2019), and a Department of Energy Research Award (2022). His academic services also extend to numerous other academic journals, and he has participated as a panelist for NSF, DOE, and NASA grant review processes.