

Prof. Dr. Les Sztandera

Prof. Dr. Les Sztandera is Tenured Full Professor of Computer Science at Thomas Jefferson University in Philadelphia, Pennsylvania. He specializes in Artificial Intelligence, Data Mining and Knowledge Discovery, and Data Analytics.

Prof. Sztandera has successfully carried out research grants as PI, co-PI, or Senior Investigator, and subsequently published the results in peer-reviewed journals on: image processing for myocardial perfusion scans to investigate the blood supply to the heart (American Heart Association), analyzing data for bio- and chemically protective soldier uniforms (US Department of Defense), use of Genetic Algorithms in molecular design of novel fibers (US Department of Commerce / National Textile Center), use of Artificial Intelligence and Computational Chemistry in undergraduate science education (National Science Foundation), as well as private industry grants on ethnographic and survey research and secondary data analysis in preventing cognitive decline in older adults, as well as patients suffering with dementia.

As PI / co-PI for the private industry grants, Prof. Sztandera laid the groundwork for the AEIOU framework (Activity, Environments, Interactions, Objects, and Users) based on patient's empathy, and subsequent use of Data Analytics that has led to the use of Virtual Reality software, as well as testing of a digital cloud platform that patients and practices could access, and patients could update about their daily routines and impact on their health. In addition, he successfully administered multiple projects (e.g. staffing, research protections, budget), collaborated with other researchers, and produced required reports / publications from each project. The current Commonwealth of Pennsylvania Industrial Hemp Engine initiative builds logically on his prior work as academic researcher and professor.