Ciclo de Coloquios 2016
Charla para pregrado

EX UMBRA IN SOLEM

El Departamento de Informática de la Universidad Técnica Federico Santa María tiene el agrado de invitar a la comunidad Universitaria a su ciclo de coloquios. Esta presentación se realizará en el Auditorio Claudio Matamoros (F-106), en la Casa Central el día **Miércoles 24 de Agosto a las 9:45** y por videoconferencia a la Sala de Reuniones, Departamento de Informática, Campus San Joaquín, UTFSM.

Título

Visualization and Visual Analytics

Expositores

Cecilia R. Aragon
Professor
University of Washington

Mini Bio

Cecilia Aragon is Director of the Human Centered Data Science Lab, Professor in the Department of Human Centered Design & Engineering, and Senior Data Science Fellow in the eScience Institute at the University of Washington, Seattle, Washington, USA. She holds courtesy appointments in Computer Science and Engineering, Electrical Engineering, and the Information School, and co-leads UW's Data Science Studies Working Group as one of the PIs of the US$37.8M Moore/Sloan Data Science Environment. She is Founding Co-Director of the new UW Data Science Master's Program, which will start its inaugural class in September 2016. She earned her Ph.D. in computer science from UC Berkeley in 2004 and her B.S. in mathematics from the California Institute of Technology. Her research focuses on human-centered data science, an emerging field at the intersection of computer-supported cooperative work (CSCW) and the statistical and computational techniques of data science.

In 2008, Aragon received the Presidential Early Career Award for Scientists and Engineers (PECASE) for her work in collaborative data-intensive science. Her research has been recognized with over US$24M in grants from federal agencies, private foundations, and industry, and has garnered over 4,500 citations and six Best Paper awards since 2004. She won the Distinguished Alumni Award in Computer Science from UC Berkeley in 2013, the Faculty Innovator in Teaching Award from her department at UW that same year, and was named one of the Top 25 Women of 2009 by Hispanic Business Magazine. Aragon has an interdisciplinary background, including over 15 years of software development experience in industry and NASA, and a three-year stint as the founder and CEO of a small company.

Resumen

Recent advances in computation, data management, and sensors are leading our society to generate an ever-increasing flood of digital information. Submerged within the data deluge lies a wealth of information that is potentially valuable to businesses, governments, scientists, and all human communities. In order for data to be of use to humans, we need to understand how to explore and communicate this information effectively so that humans can make sense of and draw valuable insights from the data around us. The visual system is the highest bandwidth channel into the human brain.
The goal of data visualization is the unveiling of the underlying structure of large or abstract data sets using visual representations that utilize the powerful processing capabilities of the human visual perceptual system. Visual analytics is the science of analytical reasoning facilitated by interactive visual interfaces.
In this talk, I will cover some of the key design principles and techniques used in visualizing, exploring, and analyzing very large data sets, together with the perceptual principles that support them, to provide a broad overview of the rich world of data visualization.

Lugar y Fecha

24 de Agosto de 2016, 9:45am
Auditorio Claudio Matamoros (F-106)
Departamento de Informática, Valparaíso. UTFSM