Making Big Data Fair

Julia
Stoyanovich

CURRENT RESEARCH

Advancing data and knowledge management to promote equality and fairness

Since the rise of the Internet nearly 50 years ago, society has found both empowerment and dependence on the technological world and information sciences. Today, scientists cannot accurately test their hypotheses without the help of computer simulation and data analysis, companies cannot market their products without understanding user preferences, and ordinary citizens cannot go about their everyday lives without relying on personal and social information management and analysis platforms. Dr. Julia Stoyanovich, Assistant Professor of Computer Science at Drexel University, studies data and knowledge management, with the goal of helping users identify relevant information, transform that information into knowledge, and assess the fairness of data collection and analysis processes. By addressing challenges that arise particularly in scientific applications and in personal/social information management, Dr. Stoyanovich helps both scientists and everyday users work with their information more effectively.

Upon graduating from college, Dr. Stoyanovich spent five years in the startup industry, as a software developer, data architect and database administrator. This experience has motivated her to work with real datasets whenever possible, and to deliver results of her research to the communities of target users, as part of open-source systems or as stand-alone prototypes. Dr. Stoyanovich enjoys collaborative research, and is working with researchers at Technion (Israel), INRIA (France) and University of Pennsylvania.

Current areas of research include:

- <u>Making Data Fair:</u> Access to open data and to results of data analysis should be a basic human right, as...

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AFFILIATION

Drexel University

EDUCATION

- Ph.D. in Computer Science 2009,Columbia University
- M.S. in Computer Science 2004, Columbia University
- B.S. in Computer Science, ,B.S. in Mathematics and Statistics 1998,University of Massachusetts Amherst

AWARDS

- Google Research Award, 2012
- NSF CRA Computing Innovations Fellowship, 2009-2011
- Michelman Award, 2008
- DuBois Undergraduate Research Scholarship, 1997

RESEARCH AREAS

Technology, Computational Sciences / Mathematics, Informational Sciences / Internet, IOT, Devices, Data

FUNDING REQUEST

Your contributions will support the research of Dr. Stoyanovich as she develops frameworks for data and knowledge management, and amplifies the impact of her research through education and outreach. Your donations will help build a strong team of undergraduate and graduate students, most of whom are women in a male-dominated field, and encourage them to pursue research opportunities. A robust group of talented individuals will accelerate technological innovation, bringing about lasting societal change.