

Making Sense of a Richly Interconnected World



Lise Getoor
Professor, Computer Science

CURRENT RESEARCH

Doing useful things with data in responsible ways

We live in a richly interconnected world - links capture how proteins interact; graphs that show how students help each other learn in online courses; networks that collect the accumulated knowledge of the internet. How and what can we learn from these graphs? With the immeasurable amount of data surrounding us, utilizing data more effectively and efficiently has become increasingly difficult. Dr. Lise Getoor, of the University of California, Santa Cruz, utilizes techniques from machine learning, database systems and visual analytics to develop algorithms and tools that can make sense of large, richly interlinked, heterogeneous data. As one of the founders of statistical relational learning, a research area within machine learning and artificial intelligence, Dr. Getoor develops data science techniques to represent and effectively reason with this form of rich and multi-relational graph data. This research area holds the promise of developing tools to build the large, rich models that are needed to both harness the heterogeneity and scale of today's data and to solve more complex problems than traditional machine learning techniques are capable of handling.

Motivated by this challenging problem, Dr. Getoor's highly collaborative research spans statistical and logical approaches with applications in computational social science, computational sustainability, computational biology, computer vision, computational linguistics, cybersecurity, online learning, personalized medicine, social media, and social networks. Dr. Getoor's success in seeing connections across fields and often operating at the boundaries of academic disciplines, like logic and probability or machine learning and databases, has made her...

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AFFILIATION



University of California, Santa Cruz

EDUCATION

- Ph.D., in Computer Science, 2011, Stanford University
- M.S., in Computer Science, 1989, University of California, Berkeley
- B.S., in Computer Science, 1986, University of California, Santa Barbara

AWARDS

- AAAI Fellow, 2013
- NSF Career Award, 2008
- National Physical Science Consortium Fellowship, 1995-2001
- Eight best paper and best student paper awards

RESEARCH AREAS

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

FUNDING REQUEST

Your contributions will support Dr. Getoor's research to develop the tools and techniques necessary to build the models that are needed to harness the heterogeneity and scale of today's data and to solve more complex problems than traditional machine learning techniques. Your donations will support personnel, research programmers, travel, and continued efforts to build open-source toolkits. With your help, her research will result in applications for the social good.