



# Responsible Data Science

Lise Getoor  
UC Santa Cruz  
getoor@ucsc.edu

## ABSTRACT

Data science is an emerging discipline that offers both promise and peril. Responsible data science refers to efforts that address both the technical and societal issues in emerging data-driven technologies. How can machine learning and database systems reason effectively about complex dependencies and uncertainty? Furthermore, how do we understand the ethical and societal issues involved in data-driven decision-making? There is a pressing need to integrate algorithmic and statistical principles, social science theories, and basic humanist concepts so that we can think critically and constructively about the socio-technical systems we are building. In this talk, I will overview this emerging area, with an emphasis on relational learning.

## CCS Concepts/ACM Classifiers

- General and reference~Surveys and overviews

**Author Keywords:** responsible data science; relational learning; ethics and data science; socio-technical systems.

## BIOGRAPHY

Lise Getoor is a professor in the Computer Science Department at UC Santa Cruz and director of the Data, Discovery and Decisions (D<sup>3</sup>) Data Science Research Center at the University of California, Santa Cruz. Her research areas include machine learning, data integration and reasoning under uncertainty, with an emphasis on graph and network data. She has over 250 publications, including 13 best paper awards. She is a Fellow of the Association for Artificial Intelligence, has served as an elected board member of the International Machine Learning Society and the Computing Research Association (CRA). In fall 2018, she was a visiting researcher in the Fairness, Accountability, Transparency and Ethics research group at Microsoft Research, NYC. She received her PhD from Stanford University in 2001, her MS from UC Berkeley, and her BS from UC Santa Barbara, and was a professor at the University of Maryland, College Park from 2001-2013.

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*SIGMOD '19, June 30–July 5, 2019, Amsterdam, Netherlands.*

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ACM ISBN 978-1-4503-5643-5/19/06.

DOI: <https://doi.org/10.1145/3299869.3314117>