

Rachel Cummings

Assistant Professor, Industrial and Systems Engineering at Georgia Tech College of Engineering
Atlanta, GA, US

Rachel Cummings is an expert in data privacy, algorithmic economics, optimization, statistics, and information theory.

Biography

Dr. Rachel Cummings is an Assistant Professor in the H. Milton Stewart School of Industrial and Systems Engineering at Georgia Tech. Her research interests lie primarily in data privacy, with connections to machine learning, algorithmic economics, optimization, statistics, and information theory. Her work has focused on problems such as strategic aspects of data generation, incentivizing truthful reporting of data, privacy-preserving algorithm design, impacts of privacy policy, and human decision-making.

Dr. Cummings received her Ph.D. in Computing and Mathematical Sciences from the California Institute of Technology, her M.S. in Computer Science from Northwestern University, and her B.A. in Mathematics and Economics from the University of Southern California.

She is the recipient of a Google Research Fellowship, a Simons-Berkeley Research Fellowship in Data Privacy, the ACM SIGecom Doctoral Dissertation Honorable Mention, the Amori Doctoral Prize in Computing and Mathematical Sciences, a Caltech Leadership Award, a Simons Award for Graduate Students in Theoretical Computer Science, and the Best Paper Award at the 2014 International Symposium on Distributed Computing. Dr. Cummings also serves on the ACM U.S. Public Policy Council's Privacy Committee.

Areas of Expertise

Medical Instrumentation, Home Monitoring of Chronic Disease, Data Generation, Machine Learning, Data Privacy, Algorithmic Economics, Statistics, Optimization, Non-invasive Physiological Monitoring, Cardiomechanical Signs

Education

California Institute of Technology

Ph.D. Computing and Mathematical Sciences

Northwestern University

M.S. Computer Science

University of Southern California

B.A. Mathematics, Economics

Selected Accomplishments

Google Research Fellowship

Google Research Fellowship Spring 2019

Simons-Berkeley Research Fellowship in Data Privacy

Simons-Berkeley Research Fellowship in Data Privacy Spring 2019

ACM SIGecom Doctoral Dissertation Honorable Mention

ACM SIGecom Doctoral Dissertation Honorable Mention 2018

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