For ambitious data scientists, the Center for Statistics and Machine Learning (CSML) at Princeton University provides a uniquely fruitful opportunity to be a part of a creative environment for innovative research that has the potential to change the wider world. Through the Schmidt DataX Fund, you will be immersed in vibrant community of scholars who are pushing the limits of data-driven research. You will have the opportunity to contribute your skills in a multidisciplinary environment and collaborate with highly respected faculty in the fields of catalysis, biomedical data science and technology policy, including these faculty who are spearheading the project:

**Abigail Doyle**, Professor of Chemistry, is involved in developing novel methods to create molecules and chemicals for possible use in medicine and other industries. In a recent project published in the *Journal Science* in February 2018, Doyle led a team effort to use machine learning techniques to accurately predict yields from chemical reactions.

**Dave MacMillan**, Professor of Chemistry, is pushing research into developing new or underused chemical catalysis methods for use in the pharmaceutical industry and other commercial use. Besides his academic research, MacMillan has consulted with various chemical companies and co-founded Chiromics LLC, a biotech firm that seeks to devise new strategies and screening techniques for the identification of drug-like molecules.

Professor of Sociology **Matthew Salganik**'s research focuses on looking at social networks and the intersection of computational and social sciences. He wrote the book, *Bit by Bit: Social Research in the Digital Age*, which explores social science and big data. Accounts of his work have appeared in The New York Times, Wall Street Journal, Economist, and New Yorker.

**Olga Troyanskaya**, Professor of Computer Science and the Lewis-Sigler Institute for Integrative Genomics, harnesses advanced computational methods to probe questions in biology, namely the workings of the human body and the manifestations of disease. The World Economic Forum recently highlighted her research on how deep learning can be used to enhance our understanding of cancer and other diseases.

Professor of Computer Science **Ben Raphael**'s research focuses on the development of algorithms and mathematical models to address issues in biology, such as comparative genomics across individuals and the mutations that drive cancer. For the journal *Nature Genetics*, Raphael co-authored a paper that presented a novel algorithm that tracks growing, multiplying cancers.

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