Christopher Ré is an associate professor in the Department of Computer Science at Stanford University who is affiliated with the Statistical Machine Learning Group and Stanford AI Lab. His recent work is to understand how software and hardware systems will change as a result of machine learning along with a continuing, petulant drive to work on math problems. Research from his group has been incorporated into scientific and humanitarian efforts, such as the fight against human trafficking, along with products from technology and enterprise companies. He cofounded a company, based on his research into machine learning systems, that was acquired by Apple in 2017. More recently, he cofounded SambaNova systems based, in part, on his work on accelerating machine learning.

He received a SIGMOD Dissertation Award in 2010, an NSF CAREER Award in 2011, an Alfred P. Sloan Fellowship in 2013, a Moore Data Driven Investigator Award in 2014, the VLDB early Career Award in 2015, the MacArthur Foundation Fellowship in 2015, and an Okawa Research Grant in 2016. His research contributions have spanned database theory, database systems, and machine learning, and his work has won best paper at a premier venue in each area, respectively, at PODS 2012, SIGMOD 2014, and ICML 2016.

ACADEMIC APPOINTMENTS
• Associate Professor, Computer Science
• Member, Bio-X

PROGRAM AFFILIATIONS
• Stanford SystemX Alliance

LINKS
• My homepage: http://cs.stanford.edu/people/chrismre/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS
Algorithms, systems, and theory for the next generation of data processing and data analytics systems.

Teaching

COURSES
2020-21
• Machine Learning: CS 229, STATS 229 (Aut, Spr)
2019-20
• Machine Learning: CS 229, STATS 229 (Aut, Spr)
2018-19
STANFORD ADVISEES

Doctoral Dissertation Reader (AC)
Matthew Feldman, Luke Hsiao, Kevin Kiningham, Steve Mussmann, Deepak Narayanan, Tian Zhao

Postdoctoral Faculty Sponsor
Beidi Chen, Laurel Orr, Sen Wu

Doctoral Dissertation Advisor (AC)
Ines Chami, Tri Dao, Nimit Sohoni, Sahaana Suri

Doctoral Dissertation Co-Advisor (AC)
Anand Avati, Dan Fu, Sarah Hooper

Master's Program Advisor
Sarah Egler, Alex Fuster, May Jiang, Grace Kim, Min Kim, Matt King, Benson Kung, Bill Lin, Kevin Lin, Anatole Schneider, Yawen Shen, Laikh Tewari

Doctoral (Program)
Simran Arora, Mayee Chen, Karan Goel, Albert Gu, Megan Leszczynski, Eric Winsor

Publications

PUBLICATIONS

- **Snorkel DryBell: A Case Study in Deploying Weak Supervision at Industrial Scale.** Proceedings. ACM-Sigmod International Conference on Management of Data
  2019: 362–75

- **Assessment of Convolutional Neural Networks for Automated Classification of Chest Radiographs.** Radiology
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- **Research for Practice: Knowledge Base Construction in the Machine Learning Era** COMMUNICATIONS OF THE ACM
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- **A Relational Framework for Classifier Engineering**
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- **Fonduer: Knowledge Base Construction from Richly Formatted Data.** Proceedings. ACM-Sigmod International Conference on Management of Data
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Worst-case Optimal Join Algorithms

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Weighted SGD for l(p) Regression with Randomized Preconditioning

Yang, J., Chow, Y., Re, C., Mahoney, M. W.
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Association of Omics Features with Histopathology Patterns in Lung Adenocarcinoma

Yu, K., Berry, G. J., Rubin, D. L., Re, C., Altman, R. B., Snyder, M.
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