Ashia C. Wilson

IDENTIFYING DATA

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ACADEMIC HISTORY

University of California, Berkeley

Ph.D., *Statistics* **2012-2018**

Advisors: *Professors Michael I. Jordan and Benjamin Recht*

Harvard University

Bachelor, *Applied Mathematics* (with honors) **2007-2011**

EMPLOYMENT RECORD

MIT, *Assistant Professor of Electrical Engineering and Computer Science* **2021**

Microsoft Research, *Postdoctoral Researcher* **2018-2020**

Google AI, *Summer Intern with Yoram Singer* **2017-2018**

MIT, *Research Assistant in Prediction Analysis Lab with Professor Cynthia Rudin* **2017-2018**

PROFESSIONAL EXPERIENCE

Co-President: UC Berkeley's Statistics Graduate Student Association **2016**

University of California, Berkeley Graduate Instructor

EE227C: Optimization for Modern Data Analysis **2015**
Stat154: Modern Statistical Prediction and Machine Learning **2015**

Reviewer

Neural Information Processing Systems (2017, 2020),
Journal of Machine Learning Research (2019).

AWARDS AND HONORS

NeurIPS '17 spotlight paper award for *The Marginal Value of Adaptive Methods in Machine Learning* **2017**

Rising Stars in EECS, *Invited Participant* **2017**

National Science Foundation Graduate Research Fellowship **2014-2017**

UC Berkeley Chancellors Fellowship **2012-2014**

GEM Fellowship

Harvard Fung Fellowship **2010**

Best Paper, MERIT Research Program at University of Maryland **2009**

PUBLICATIONS

Refereed Journal Publications

Broderick, T., Wilson, A. C., and Jordan, M. I. (2018). Posteriors, conjugacy, and exponential families for completely random measures. *Bernoulli.*

Wibisono, A., Wilson, A. C., and Jordan, M. I. (2016). A variational perspective on accelerated methods of optimization. *Proceedings of the National Academy of Science (PNAS).*

Refereed Conferences/Symposia Proceedings

Wilson, A. C., Kasy, M., and Mackey, L. (2020). Approximate cross-validation: guarantees for model assessment and selection. *To appear at the 23rd International Conference on Artificial Intelligence and Statistics (AISTATS).*

Liu, L. T., Wilson, A. C., Haghtalab, N., Kalai, A. T., Borgs, C., and Chayes, J. (2020). The disparate equilibria of algorithmic decision making when individuals invest rationally. *ACM conference on Fairness, Accountability and Transparency (FAT*).*

Wilson, A. C., Mackey, L., and Wibisono, A. (2019). Accelerating rescaled gradient descent: fast minimization of smooth functions. *In Advances in Neural Information Processing Systems (NeurIPS), 31.*

Wilson, A. C., Roelofs, R., Stern, M., Srebro, N. and Recht, B. (2017). The marginal value of adaptive methods in machine learning. *In Advances in Neural Information Processing Systems (NeurIPS), 29.* **(Awarded Spotlight Presentation)**

Tu S., Venkataraman, S., Wilson, A. C., Jordan, M.I. and Recht, B. (2017). Breaking locality accelerates block Gauss-Seidel. *In the International Conference of Machine Learning (ICML), 34.*

Broderick, T., Boyd, N., Wibisono, A., Wilson, A. C., and Jordan, M. I. (2014). Streaming variational Bayes. *In Advances in Neural Information Processing Systems (NeurIPS), 26.*

Preprints

Wilson, A. C., Recht, B. and Jordan, M. I. (2016). A Lyapunov analysis of momentum methods in optimization. *Under Review.*

Betancourt, M., Jordan, M. I. and Wilson A. C. (2017). On symplectic optimization.

PRESENTATIONS

Invited Plenary Talks

Caltech Young Investigator Lecturer in Engineering and Applied Science **2017**

Other Invited Presentations

UC Berkeley Rise Lab **2017**

UC Berkeley BSTARs **2017**

UC Berkeley Amp Camp **2014**

Workshop and Conference Presentations

Optimization and Statistical Learning (OSL), Les Houches **2019**

57th IEEE Conference on Decision and Control, Miami Beach	**2018**
Information Theory and Applications Workshop (ITA)	**2017**
SIAM Conference on Optimization (OP17)	**2017**
Cornell Young Research Workshop	**2017**

Department Seminars

Johns Hopkins: Invited Seminar, Mathematical Institute for Data Science (MINDS)	**2020**
Rice: Invited Seminar, Computational and Applied Mathematics	**2020**
University of Maryland: Invited Seminar, Computer Science	**2020**
Cornell: Invited Seminar, Operations Research and Information Engineering	**2020**
Yale: Invited Seminar, Computer Science	**2020**
Brown: Invited Seminar, Computer Science	**2020**
New York University: Invited Seminar, Computer Science	**2020**
University of Chicago: Invited Seminar, Computer Science	**2020**
Carnegie Melon University: Invited Seminar, Computer Science	**2020**
Georgia Tech: Invited Seminar, Computer Science	**2020**
Stanford: Invited Seminar, Computer Science and Management Science & Engineering	**2020**
UMass Amherst: Special Seminar, Applied Mathematics	**2019**
MIT Operations Research Seminar	**2019**
ETH, Zurich Statistics Seminar Series	**2019**
Georgia Tech ISYE Seminar	**2018**
MIT LIDS Seminar	**2018**
TTIC Young Researcher Seminar Series	**2017**
Microsoft Research Theory Group, Seattle	**2017**