JOHN D. LAFFERTY – BIOGRAPHICAL SKETCH

Address

Department of Statistics and Data Science
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Professional Preparation

1982–1986, Princeton University
Ph.D. in Mathematics, 1986, M.A. in Mathematics, 1984
Member of the Program in Applied and Computational Mathematics
Thesis advisor: Edward Nelson

1981–1982, Massachusetts Institute of Technology
Undergraduate work in mathematics and statistics. Beinecke Fellowship.

1978–1981, Middlebury College
B.A. 1982 *summa cum laude* with highest honors in Mathematics.

Appointments

2017–Present, Yale University
John C. Malone Professor of Statistics and Data Science
Secondary appointment, Department of Computer Science

2013–Present, Toyota Technological Institute at Chicago
Adjoint Professor

2011–2017, University of Chicago
Louis Block Professor of Statistics and Computer Science

1994–2011, Carnegie Mellon University
Professor of Computer Science, Machine Learning, and Statistics
2005–2008, Co-Director, Ph.D. Program in Machine Learning
1998–2004, Associate Professor of Computer Science
1994–1997, Assistant Research Professor

1988–1994, IBM Thomas J. Watson Research Center, Yorktown Heights, NY
Research Staff Member, Department of Computer Sciences

1986–1987, Harvard University
Assistant Professor, Benjamin Pierce Lecturer on Mathematics

Publications Related to Proposal

1. Y. Zhu and J. Lafferty, "Quantized minimax estimation over Sobolev ellipsoids," Information and Inference: A Journal of the IMA, Volume 7, Issue 1, 15 March 2018, pp 31–82.

2. Y. Zhu and J. Lafferty, "Distributed nonparametric regression under communication constraints," arXiv:1803.01302, to appear in International Conference on Machine Learning (ICML), 2018.

3. N. Mishra, H. Zhang, J. Lafferty and H. Hoffman, "A graphical model approach to minimizing energy under performance constraints," Architecural Support for Programming Languages and Operating Systems (ASPLOS), 2015.

4. D. Blei and J. Lafferty, "Dynamic topic models," *Machine Learning: Proceedings of the Twenty-Third International Conference (ICML)*, pp. 113–120, 2006.

5. X. Zhu, Z. Ghahramani and J. Lafferty, "Semi-supervised learning using Gaussian fields and harmonic functions," *Proceedings of the International Conference on Machine Learning*, pp. 912–919, 2003.

Other Publications

1. M. Xu, M. Chen and J. Lafferty, "Faithful variable selection for high dimensional convex regression," *Ann. Statist.*, Vol. 44, Number 6 (2016), 2624–2660.

2. H. Liu, F. Han, M. Yuan, J. Lafferty, and L. Wasserman, "High-dimensional semiparametric Gaussian copula graphical models", *Ann. Statist.*, Vol. 40, Number 4 (2012), 2293–2326.

3. P. Ravikumar, M. Wainwright and J. Lafferty, "High dimensional Ising model selection using ℓ_1 regularized logistic regression," *Anna. Statist.* Volume 38, Number 3 (2010), 1287–1319.

4. P. Ravikumar, J. Lafferty, H. Liu, and L. Wasserman, "Sparse additive models," *Journal of the Royal Statistical Society: Series B*, Volume 71, part 5, pages 1009–1030, 2009.

5. S. Zhou, J. Lafferty and L. Wasserman, "Compressed and privacy sensitive sparse regression," *IEEE Trans. Information Theory*, Vol. 55, Number 2, February 2009, pages 846–866.

Synergistic Activities

Member of the board of the NIPS Foundation, 2010–present. Member of the Committee on Applied and Theoretical Statistics (CATS), National Research Council of the National Academy of Sciences, 2011–2016. Member of NORC Advisory Committee on Statistics, Machine Learning and High Performance Computing, 2014–present.

Recent Collaborators and Other Affiliations

David Blei (Princeton), Rina Barber (Univ. Chicago), Sabyasachi Chatterjee (Univ. Illinois), John Duchi (Stanford), Chao Gao (Univ. Chicago), Han Liu (Northwestern), Larry Wasserman (CMU), Min Xu (Rutgers), Yuancheng Zhu (Univ. Pennsylvania).