Dustin Tran

Ph.D. Student
Columbia University
Department of Computer Science
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Education

Ph.D. Computer Science, Columbia University — 2016–
Advisors: David M. Blei, Andrew Gelman

M.S. Computational Science & Engineering, Harvard University — 2014–2015
Advisor: Edoardo M. Airoldi

B.A. (Hon.) Mathematics, Statistics, University of California, Berkeley — 2010–2014

Employment

Visiting Researcher — 2016
Graduate School of Business, Stanford University
Supervisor: Susan Athey

Visiting Researcher — 2015
Department of Statistics and Computer Science, Columbia University
Supervisors: David M. Blei, Andrew Gelman

Awards

Adobe Research Fellowship ($10,000) — 2016

Columbia SEAS Fellowship (Full funding) — 2016–

LinkedIn Economic Graph Challenge — 2015

Harvard GSAS Fellowship (Full funding) — 2015

Dorothea Klumpke Roberts Prize in Mathematics — 2014

Regents' and Chancellor's Scholarship (Full funding) — 2010–2014

Rose Hills Foundation Science & Engineering Grant ($5,000) — 2013

Cal Alumni Leadership Scholarship ($2,500) — 2010

Publications

PREPRINTS

1. **D. Tran**, A. Gelman, and A. Vehtari. Gradient-based marginal optimization.
2. G. Basse, J. Pouget-Abadie, **D. Tran**, E.M. Airoldi, Y. Xu, and S. Ghosh. Naive A/B tests for link formation algorithms lead to biased performance evaluations.
3. A. Kucukelbir, **D. Tran**, R. Ranganath, A. Gelman, and D.M. Blei. Automatic differentiation variational inference.
4. R. Ranganath, **D. Tran**, and D.M. Blei. Hierarchical variational models.
5. **D. Tran**, P. Toulis, and E.M. Airoldi. Stochastic gradient descent methods for estimation with large data sets.

Refereed Conference Papers

6. **D. Tran**, M. Kim, and F. Doshi-Velez. Spectral M-estimation with application to hidden Markov models. In *Artificial Intelligence and Statistics*, 2016.
7. P. Toulis, **D. Tran**, and E.M. Airoldi. Towards stability and optimality in stochastic gradient descent. In *Artificial Intelligence and Statistics*, 2016.
8. **D. Tran**, R. Ranganath, and D.M. Blei. Variational Gaussian process. In *International Conference on Learning Representations*, 2016.
9. **D. Tran**, D.M. Blei, and E.M. Airoldi. Copula variational inference. In *Neural Information Processing Systems*, 2015.

Teaching

1. Teaching Fellow | Harvard University 2015
   AM 205: Advanced Scientific Computing–Numerical Methods
2. Teaching Assistant | University of California, Berkeley 2013
   MATH 10B: Methods in Calculus, Statistics, Combinatorics
3. Teaching Assistant | University of California, Berkeley 2011
   MATH 128A: Numerical Analysis

Professional Service

Reviewing

International Conference on Learning Representations	2016
International Conference on Machine Learning	2016
Knowledge Discovery and Data Mining	2016
Neural Information Processing Systems	2016
Uncertainty in Artificial Intelligence	2016

Workshop Organization

NIPS: Advances in Approximate Bayesian Inference 2015

PROFESSIONAL MEMBERSHIPS

American Statistical Association

Association of Computing Machinery

Bernoulli Society

Institute of Electrical and Electronics Engineers

Institute for Mathematical Statistics

International Society for Bayesian Analysis

Royal Statistical Society

MENTORING

Ido Rosen (Columbia University, 2016)

Invited Talks

1. International Conference on Learning Representations – SAN JUAN, PR 2016
2. PPAML/DARPA Meeting – NEW YORK, NY 2016
3. Harvard University – CAMBRIDGE, MA 2016
4. NIPS Workshop: Advances in Approximate Bayesian Inference – MONTREAL, CA 2015
5. NIPS Workshop: Black Box Learning and Inference – MONTREAL, CA 2015
6. Massachusetts Institute of Technology – CAMBRIDGE, MA 2015
7. Harvard University – CAMBRIDGE, MA 2015
8. Microsoft Research – CAMBRIDGE, MA 2015
9. University of Connecticut – STORRS, CT 2015
10. Max Planck Institute for Intelligent Systems – TÜBINGEN, DE 2015