Dustin Tran

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Ph.D. Student
Harvard University
Department of Statistics
Cambridge, MA

Education

Ph.D. Statistics, Harvard University — 2014–
M.S. Computational Science & Engineering, Harvard University
Advisors: Edoardo M. Airoldi, David M. Blei

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

Employment

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

Awards

GSAS Fellowship (Full funding) — 2015–

Dorothea Klumpke Roberts Prize in Mathematics ($1,000) — 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. A. Kucukelbir, **D. Tran**, R. Ranganath, A. Gelman, and D.M. Blei. Automatic differentiation variational inference.
2. **D. Tran**, R. Ranganath, and D.M. Blei. Variational Gaussian process.
3. R. Ranganath, **D. Tran**, and D.M. Blei. Hierarchical variational models.
4. **D. Tran**, M. Kim, and F. Doshi-Velez. Spectral M-estimation.
5. **D. Tran**, P. Toulis, and E.M. Airoldi. Stochastic gradient descent methods for estimation with large data sets.

6. P. Toulis, **D. Tran**, and E.M. Airoldi. Towards stability and optimality in stochastic gradient descent.

Refereed Conference Papers

7. **D. Tran**, D.M. Blei, and E.M. Airoldi. Copula variational inference. In *Neural Information Processing Systems*, 2015.

Professional Service

Reviewing

International Conference on Learning Representations 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

Invited Talks

1. NIPS Workshop: Black Box Learning and Inference – MONTREAL, CA 2015
2. Harvard University – CAMBRIDGE, MA 2015
3. Massachusetts Institute of Technology – CAMBRIDGE, MA 2015
4. Harvard University – CAMBRIDGE, MA 2015
5. Max Planck Institute for Intelligent Systems – TÜBINGEN, DE 2015
6. University of Cambridge – CAMBRIDGE, UK 2015
7. University of California, Berkeley – BERKELEY, CA 2014

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