Dustin Tran

Ph.D. Student
Columbia University
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Education

Ph.D. Computer Science, Columbia University Advisors: David M. Blei, Andrew Gelman	2016–
Ph.D. Statistics, Harvard University (transferred) M.S. Computational Science & Engineering, Harvard University Advisor: Edoardo M. Airoldi	2014–2015
B.A. (Hon.) Mathematics, Statistics, University of California, Berkeley	2010–2014

Employment

Visiting Researcher Data Science Institute, Columbia University Supervisors: David M. Blei, Andrew Gelman	2015

Awards

Adobe Research Fellowship ($10,000)	2016
Columbia SEAS Fellowship (Full funding)	2016–
Harvard 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**, P. Toulis, and E.M. Airoldi. Stochastic gradient descent methods for estimation with large data sets.

REFEREED CONFERENCE PAPERS

5. **D. Tran**, M. Kim, and F. Doshi-Velez. Spectral M-estimation. In *Artificial Intelligence and Statistics*, 2016.

6. P. Toulis, **D. Tran**, and E.M. Airoldi. Towards stability and optimality in stochastic gradient descent. In *Artificial Intelligence and Statistics*, 2016.

7. **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

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: Advances in Approximate Bayesian Inference – MONTREAL, CA   2015
2. NIPS Workshop: Black Box Learning and Inference – MONTREAL, CA   2015
3. Massachusetts Institute of Technology – CAMBRIDGE, MA   2015
4. Harvard University – CAMBRIDGE, MA   2015
5. Microsoft Research – CAMBRIDGE, MA   2015
6. University of Connecticut – STORRS, CT   2015
7. Max Planck Institute for Intelligent Systems – TÜBINGEN, DE   2015