

Dustin Tran

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

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

Employment

Visiting Researcher Graduate School of Business, Stanford University Supervisors: Guido Imbens, Susan Athey	2016
Visiting Researcher Department of Statistics and Computer Science, Columbia University Supervisors: David M. Blei, Andrew Gelman	2015

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. **D. Tran**, A. Kucukelbir, A. Gelman, B. Carpenter, and D.M. Blei. Stan: Generalizing and automating variational inference.
3. G. Basse, J. Pouget-Abadie, **D. Tran**, E.M. Airolidi, Y. Xu, and S. Ghosh. Naive A/B tests for link formation algorithms lead to biased performance evaluations.
4. A. Kucukelbir, **D. Tran**, R. Ranganath, A. Gelman, and D.M. Blei. Automatic differentiation variational inference.
5. **D. Tran**, P. Toulis, and E.M. Airolidi. Stochastic gradient descent methods for estimation with large data sets.

REFEREED CONFERENCE PAPERS

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

Teaching

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

Professional Service

REVIEWING

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| Foundations and Trends in Machine Learning | 2016 |
| 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

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