

Adji Bouso Dieng

Columbia University
Department of Statistics
1255 Amsterdam Avenue
New York, NY 10027

Email: [abd2141 at columbia dot edu](mailto:abd2141@columbia.edu)
Homepage: <http://stat.columbia.edu/diengadji/>
Github: <https://github.com/adjidieng>
LinkedIn: <https://www.linkedin.com/in/diengadji45>

Education

Ph.D in Statistics, Columbia University Advisors: David Blei, John Paisley	2014 – Present
Master in Applied Statistics, Cornell University Advisors: David Lifka, Martin Wells	Jan 2012 – May 2013
Diplome d'Ingenieur, Telecom ParisTech France's "Grandes Ecoles "	Sep 2009 – May 2013
Lycee Henri IV (France's "Classes Preparatoires aux Grandes Ecoles")	Sep 2006 – June 2009

Employment

Research Intern DeepMind, London, UK Supervisor: Lei Yu	September 2018 – January 2019
Research Intern Facebook AI Research, New York, NY Supervisor: Yann LeCun	May 2018 – August 2018
Research Intern Microsoft AI & Research, Redmond, WA Supervisors: Chong Wang, Jianfeng Gao	June 2017 – Sep 2017
Research Intern Deep Learning Technology Center, Microsoft Research, Redmond, WA Supervisors: Chong Wang, Jianfeng Gao	June 2016 – Sep 2016
Junior Professional Associate The World Bank, Washington, DC	June 2013- July 2014
Intern International Finance Corporation, Washington, DC	Jan 2013 – May 2013
Research Intern Weill Cornell Medical College, New York, NY Supervisor: Martin T. Wells	May 2012 – Aug 2012

Preprints

A. B. Dieng, K. Cho, D. M. Blei, and Y. LeCun. *Learning with Reflective Likelihoods*. International Conference on Learning Representations (ICLR), 2019 (Submitted).

Link: <https://openreview.net/pdf?id=SJlh2jR9FX>

A. B. Dieng, Y. Kim, A. M. Rush, and D. M. Blei. *Avoiding Latent Variable Collapse With Generative Skip Models*. Artificial Intelligence and Statistics (AISTATS), 2019 (Submitted).

Link: <https://arxiv.org/abs/1807.04863>

D. Tran, A. Kucukelbir, **A. B. Dieng**, M. Rudolph, D. Liang, and D.M. Blei. *Edward: A Python library for probabilistic modeling, inference, and criticism*.

Link: <https://arxiv.org/abs/1610.09787>

Publications

A. B. Dieng, Y. Kim, A. M. Rush, and D. M. Blei. *Avoiding Latent Variable Collapse With Generative Skip Models*. Workshop on Theoretical Foundations and Applications of Deep Generative Models, ICML, 2018.

Link: <https://arxiv.org/abs/1807.04863>

A. B. Dieng, R. Ranganath, J. Altsosaar, and D. M. Blei. *Noisin: Unbiased Regularization for Recurrent Neural Networks*. International Conference on Machine Learning (ICML), 2018.

Link: <https://arxiv.org/abs/1805.01500>

F. R. Ruiz, M. Titsias, **A. B. Dieng**, and D. M. Blei. *Augment and Reduce: Stochastic Inference for Large Categorical Distributions*. International Conference on Machine Learning (ICML), 2018.

Link: <https://arxiv.org/abs/1802.04220>

D. Ciao, T. Ma, **A. B. Dieng**, D. M. Blei, and F. Wang. *Readmission Prediction via Deep Contextual Embedding of Clinical Concepts*. Plos One, 2018.

A. B. Dieng, C. Wang, J. Gao, and J. W. Paisley. *TopicRNN: A Recurrent Neural Network with Long Range Semantic Dependency*. International Conference on learning Representation (ICLR), 2017.

Link: <https://arxiv.org/abs/1611.01702>

A. B. Dieng, D. Tran, R. Ranganath, J. W. Paisley and D. M. Blei. *Variational Inference via χ Upper Bound Minimization*. Neural Information Processing Systems (NIPS), 2017.

Link: <https://arxiv.org/abs/1611.00328>

Professional Service

Journal Reviewing

IEEE Transactions on Neural Networks and Learning Systems 2018

Foundations and Trends in Machine Learning 2016

Conference Reviewing

Association for the Advancement of Artificial Intelligence 2019

Artificial Intelligence and Statistics 2018

International Conference on Learning Representations	2018
International Conference on Machine Learning	2017, 2018
Neural Information Processing Systems	2016, 2017, 2018

Workshop Reviewing

Advances in Approximate Bayesian Inference Workshop	2018
Black in AI Workshop	2018

Professional Membership

Association for Women in Mathematics
 Bernoulli Society
 Institute for Mathematical Statistics
 American Statistical Association

Volunteering

Mentorship Roundtable – Women in Machine Learning Workshop	2017
International Conference on Learning Representations	2017

Awards & Honors

International Conference on Machine Learning Travel Award	July 2018
Google sponsored talk award at New York Academy of Sciences ML Symposium	March 2018
Open Philanthropy Project AI Fellowship, Finalist	February 2018
Neural Information Processing Systems Travel Award	October 2017
International Conference on Learning Representations Travel Award	March 2017
Microsoft Azure Research Award (\$20K Azure Credit)	November 2016 – November 2017
Columbia University Dean Fellowship (Full Funding)	August 2014 – Present
Cornell Institute for African Development Fellowship (Full Tuition)	August 2013 – May 2013
Pathfinder Foundation Scholarship (€ 60K to study abroad)	2007 – 2011
Senegalese Government Excellence Scholarship	2006 – 2010
Laureate du Concours General (Senegalese Olympiad, Philosophy)	July 2006

Talks & Panels

NYU Text as Data Seminar Series, New York, NY	March 2019
American Association for the Advancement of Science (AAAS), Washington, D.C. <i>Countdown to Africa's Scientific Liftoff Symposium</i> (Panel)	February 2019
International Conference on Machine Learning, Sweden	July 2018
Columbia University Data Science Institute Student Seminar, New York, NY	April 2018
Columbia University Minghui Memorial Conference, New York, NY (short talk)	April 2018
Tufts University CS Colloquium, Medford, MA	April 2018
Harvard University NLP Group Meeting, Cambridge, MA	April 2018
Stanford University NLP Seminar, Stanford, CA	April 2018
NYAS Machine Learning Symposium (short spotlight talk)	March 2018
Women Techmakers 2018 Summit, Google, New York, NY (Panel)	Mach 2018
Machine Learning and Friends Seminar, UMass, Amherst, MA	February 2018
Black in AI Workshop, Long Beach, CA (short spotlight talk)	December 2017
MSR AI, Microsoft Research, Redmond, WA	August 2017
SSLI Lab, University of Washington, Seattle, WA	August 2017
DeepLoria, Loria Laboratory, Nancy, France	April 2017
AI With The Best, Online	April 2017
Columbia University Minghui Memorial Conference, New York, NY (short talk)	April 2017
OpenAI, San Francisco, CA	January 2017
IBM TJ Watson Research, Yorktown Heights, NY	December 2016

Posters

International Conference on Machine Learning	July 2018
NYAS Machine Learning Symposium	March 2018
Black in AI Workshop	December 2017
Self-Organizing Conference on Machine Learning	December 2017
Neural Information Processing Systems	December 2017
International Conference on learning Representations	April 2017
NYAS Machine Learning Symposium	March 2017

Teaching

Teaching Assistant, Columbia University Advanced Data Analysis	Fall 2017
Teaching Assistant, Columbia University Statistical Methods for Finance	Spring 2016
Teaching Assistant, Columbia University Probability and Statistics for Data Science	Fall 2015
Teaching Assistant, Columbia University Linear Regression Models	Spring 2015
Teaching Assistant, Columbia University Probability	Fall 2014

Communication Skills

Human Languages: Wolof(Native), French(Native), English(Fluent).

Machine Languages: Python (Pytorch, Tensorflow, Numpy, Scipy, PySpark), R(Stan), C#, Java, SQL.

Big Data Technologies: Azure, AWS.

Version Control: Git, SVN.

Last updated: November 11, 2018