

# 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 Microsoft AI & Research	June 2017 – Sep 2017
Research Intern Deep Learning Technology Center, Microsoft Research	June 2016 – Sep 2016
Junior Professional Associate The World Bank	June 2013- July 2014
Intern International Finance Corporation	Jan 2013 – May 2013
Research Intern Weill Cornell Medical College	May 2012 – Aug 2012

## Publications & Preprints

**A. B. Dieng**, R. Ranganath, J. Altsaar, and D. M. Blei. *NOISIN: Unbiased Regularization for Recurrent Neural Networks*. Submitted, 2018.

F. R. Ruiz, M. Titsias, **A. B. Dieng**, and D. M. Blei. *Augment and Reduce: Stochastic Inference for Large Categorical Distributions*. <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*. Submitted, 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, 2017.

**A. B. Dieng**, D. Tran, R. Ranganath, J. W. Paisley and D. M. Blei. *Variational Inference via  $\chi$  Upper Bound Minimization*. Neural Information Processing Systems, 2017.

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

## Awards & Honors

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

## Professional Service

### *Reviewing*

Artificial Intelligence and Statistics	2018
International Conference on Learning Representations	2018
Advances in Approximate Bayesian Inference Workshop	2018
International Conference on Machine Learning	2018, 2017
Neural Information Processing Systems	2016, 2017
Foundations and Trends in Machine Learning	2016

### *Professional Membership*

Bernoulli Society  
 Institute for Mathematical Statistics  
 American Statistical Association

### *Volunteering*

Mentor – Women in Machine Learning Workshop	2017
International Conference on Learning Representations	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

## Talks & Panels

Harvard NLP Group Meeting, Cambridge, MA	April 2018
Stanford NLP Reading Group, Stanford, CA	April 2018
Women Techmakers 2018 Summit, Google, New York, NY (Panel)	Mach 2018
NYAS Machine Learning Symposium (short spotlight talk)	March 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 (short talk)	April 2017
OpenAI, San Francisco, CA	January 2017
IBM TJ Watson Research, Yorktown Heights, NY	December 2016

## Posters

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

## 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: February 18, 2018