KIANTÉ D. BRANTLEY

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EDUCATION

University of Maryland, College Park

Ph.D. Computer Science Fall 2016 – December 2022

Advisor: Dr. Hal Daumé III

Thesis: Expert-In-The-Loop for Sequential Decisions and Predictions

New York University

Visiting Student, Center of Data Science Fall 2018 – December 2022

Hosted by: Dr. Kyunghyun Cho

University of Maryland, Baltimore County

M.S. Computer Science, Fall 2015 – Spring 2016

Advisor: Dr. Tim Oates

Thesis: BCAP: A Pruning Technique to Reduce Overfitting

B.S. Computer Science Fall 2013 – Spring 2015

Minor in Mathematics

The Community College of Baltimore County

A.A. Computer Science and A.A. Mathematics Fall 2011 – Spring 2013

EMPLOYMENT

Cornell University, Postdoctoral Associate February 2022 – August 2024

Mentored by: Thorsten Joachims

Microsoft Research, Summer Internship(s)

Microsoft Research, Redmond May 2021 – August 2021

Mentored by: Yizhe Zhang, Michel Galley, Bill Dolan

Microsoft Research, Montréal May 2020 – August 2020

Mentored by: Geoffrey J. Gordon and Soroush Mehri

Microsoft Research, NYC May 2019 – August 2019

Mentored by: Miro Dudík and Hal Daumé III

Microsoft Research, NYC May 2018 – August 2018

Mentored by: Miro Dudík and Hal Daumé III

US Department of Defense, Data Scientist

July 2010 – August 2017

Former Positions:

- Cyber Data Analyst:

DevOps Engineer

- Software Engineer, Distributed Dataflow

- Software Engineer, Testing Engineer
- Software Engineer, Hadoop Engineer
- High School Work-Study, Summer Internship

Social Security Administration, Summer Internship June 2010 – August 2010

Baltimore Convention Center, Waiter March 2010 – June 2010

McDonald, Cashier January 2010 – June 2010

Green House Cage, Prep Cook June 2009 – September 2009

June 2008 – September 2008 June 2007 – September 2007

SCHOLARSHIPS/FELLOWSHIPS

Computing Research Association (CRA) Post-Doc Fellowship	2022
Ann G. Wylie Dissertation Fellowship	2021
Microsoft Dissertation Research Grant	2020
ACM SIGHPC/Intel Computational and Data Science Fellowships	2018
NSF Louis Stokes Alliance for Minority Participation Bridge	2016
to the Doctorate Program (LSAMP BD) Fellowship	
University of Maryland College Park Dean's Fellowship	2016
Department of Defense Graduate Fellowship	2015
Transfer-Scholarships in Information Technology and Engineering	2013
(T-SITE) Scholar	
Maryland Senators and Delegates Scholarship	2013
Transfer Student Alliance Scholarship	2013
Howard P. Rawlings Educational Assistance Grant	2013
CCBC Foundation General Scholarship	2013

AWARDS/HONORS

Spotlight talk, Empirical Methods in Natural Language Processing	2023
Spotlight talk, International Conference on Learning Representations	2023
Spotlight talk, International Conference on Learning Representations	2020
2nd place, The New York Academy of Sciences Star Talks	2020
Top Reviewer, Empirical Methods in Natural Language Processing	2020
Sloan Research Fellow	2017 – 2019

PUBLICATIONS

Conference Papers

 Jonathan Chang, Dhruv Sreenivas, Yingbing Huang, Kianté Brantley, Wen Sun Adversarial Imitation Learning via Boosting - ICLR 2024 https://openreview.net/pdf?id=DuQkqSe9en 2. **Kianté Brantley,** Zhichong Fang, Sarah Dean, Thorsten Joachims

Ranking with Long-Term Constraints - *WSDM 2023* https://arxiv.org/pdf/2307.04923

 Felix Faltings, Michel Galley, Kianté Brantley, Baolin Peng, Weixin Cai, Yizhe Zhang, Jianfeng Gao, Bill Dolan Interactive text generation - EMNLP 2023 (spotlight talk) https://arxiv.org/pdf/2303.00908

4. Anne Wu, **Kianté Brantley**, Noriyuki Kojima, Yoav Artzi

lilGym: Natural Language Visual Reasoning with Reinforcement Learning - *ACL 2023* https://arxiv.org/abs/2211.01994

5. Rajkumar Ramamurthy, Prithviraj Ammanabrolu, **Kianté Brantley**, Jack Hessel, Rafet Sifa, Christian Bauckhage, Hannaneh Hajishirzi, Yejin Choi

Is Reinforcement Learning (Not) for Natural Language Processing?: Benchmarks, Baselines, and Building Blocks for Natural Language Policy Optimization - *ICLR 2022* (spotlight talk) https://arxiv.org/pdf/2210.01241.pdf

6. **Kianté Brantley,** Soroush Mehri, Geoff Gordon

Successor Feature Sets: Generalizing Successor Representations Across Policies - AAAI 2021 https://ojs.aaai.org/index.php/AAAI/article/view/17399

7. **Kianté Brantley***, Miroslav Dudik*, Thodoris Lykouris*, Sobhan Miryoosefi*, Max Simchowitz*, Aleksandrs Slivkins*, Wen Sun*

Constrained episodic reinforcement learning in concave-convex and knapsack settings - *NeurIPS* 2020 https://arxiv.org/pdf/2006.05051.pdf

8. Kianté Brantley, Amr Sharaf, Hal Daumé III

Active Imitation Learning with Noisy Guidance - *ACL* 2020 https://arxiv.org/pdf/2005.12801.pdf

9. **Kianté Brantley**, Wen Sun, Mikael Henaff

Disagreement-Regularized Imitation Learning - ICLR 2020 (spotlight talk) https://openreview.net/forum?id=rkgbYyHtwB

 Sobhan Miryoosefi*, Kianté Brantley*, Hal Daumé III, Miroslav Dudik, Robert Schapire Reinforcement Learning with Convex Constraints - NeurIPS 2019 https://arxiv.org/abs/1906.09323

 Sean Welleck, Kianté Brantley, Hal Daumé III, Kyunghyun Cho Non-Monotonic Sequential Text Generation - ICML 2019 https://arxiv.org/abs/1902.02192

Workshop Papers

 Ge Gao, Jonathan D Chang, Claire Cardie, Kianté Brantley, Thorsten Joachim Policy-Gradient Training of Language Models for Ranking - *Instruction Workshop 2023* https://arxiv.org/pdf/2310.04407.pdf

- Jonathan D Chan*g, Kiante Brantley*, Rajkumar Ramamurthy, Dipendra Misra, Wen Sun Learning to Generate Better Than Your LLM - FMDM Workshop 2023 https://arxiv.org/pdf/2306.11816
- Amr Sharaf, Shi Feng, Khanh Nguyen, Kianté Brantley, Hal Daumé III
 The UMD Neural Machine Translation Systems at WMT17 Bandit Learning Task
 Bandit Learning for Machine Translation Shared Task EMNLP 2017
 https://arxiv.org/abs/1708.01318
- Ashwinkumar Ganesan, Kianté Brantley, Shimei Pan, Jian Chen (2015).
 LDAExplore: Visualizing Topic Models Generated Using Latent Dirichlet Allocation Intelligent User Interfaces (IUI) - Textvis Workshop 2015 http://arxiv.org/pdf/1507.06593.pd

INVITED TALKS

Rochester Institute of Technology	2023	
Wayfair	2023	
NC State University	2022	
Cornell NLP Seminar	2022	
Google Brain Montréal	2022	
University of Maryland UMIACS	2021	
Microsoft Research Summit	2021	
Adobe Research	2020	
The New York Academy of Sciences	2020	
Black in AI Workshop at ACL	2020	
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LEADERSHIP/ACTIVITIES/SERVICES

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Empirical Methods in Natural Language Processing	2023

Reviewer

Special Interest Group on Information Retrieval	2023
ICML Workshop Spurious correlations, Invariance, and Stability	2023
Special Interest Group on Information Retrieval	2023
International Conference on Learning Representations	2022 2023
European Workshop on Reinforcement Learning	2022 – 2023
Empirical Methods in Natural Language Processing	2020
Conference on Neural Information Processing Systems	2020 2023
European Chapter of the Association for Computational Linguistics	2020 2023
Annual Conference of the Association for Computational Linguistics	2020 – 2021 2023
International Conference on Machine Learning	2019 – 2021 2023
Tapia Conference Scholarship Reviewer	2019 – 2021 2023
Black in Ai Admission	2019

Workshops

co-chair, interactive Learning for NLP workshop @ ACL and Neurips	2021 - 2022
Co-chair, NYU AI Winter School for underrepresented groups	2021 – 2022

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Object-Oriented Programming Certificate

2013

Community College of Baltimore County

The certificate is designed for career programmers who wish to add programming language to their skills.

TECHNICAL REPORTS

Kianté Brantley, Jingling Li, Fenfei Guo **2017**

A Study of Deep Reinforcement Learning for Sentence Compression

Amr Sharaf, **Kianté Brantly**, Parsa Saadatpanah, Ali Shafahi **2017**

Recurrent Neural Network for Sequence-to-Sequence Reinforcement Learning

Kianté Brantly, Bamidele Suarau, Seth Mosgin 2015

Experimental Comparison of Density-Based Spatial Clustering of Applications with Noise (DBSCAN) using k-d Trees vs. using VP Trees

Kianté Brantly, Bamidele Suarau 2015

Comparing the effect of compression using PCA and DAE on classifier performance in predicting Epileptic Seizures from EEG data

REFERENCES

1. Hal Daumé III

Professor, Computer Science Department, University of Maryland – College Park hal3@umd.edu

2. Thorsten Joachims

Professor, Department of Computer Science, Cornell University tj@cs.cornell.edu

3. Geoffrey J. Gordon

Professor, Department of Machine Learning, Carnegie Mellon University ggordon@cs.cmu.edu

4. Miro Dudík

Sr Principal Researcher Manager, Mirosoft Research New York mdudik@microsoft.com

5. Wen Sun

Assistant Professor, Department of Computer Science, Cornell University ws455@cornell.edu