

Chandler May

Contact Information

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Research Interests

Gender, social media, ethics in natural language processing,

Education

THE JOHNS HOPKINS UNIVERSITY 2013 – present
PH.D. CANDIDATE, COMPUTER SCIENCE
MSE, COMPUTER SCIENCE 2017
Advisor: Benjamin Van Durme
Researching the impacts of gender categories in natural language processing
HARVEY MUDD COLLEGE 2007 – 2011
B.S., MATHEMATICS
Graduated with distinction
Senior thesis: Verification of Solutions to the Sensor Location Problem
Advisor: Susan Martonosi

- Dean’s List Spring 2008, Spring 2009, Fall 2009, Fall 2010, Spring 2011
- Courtney S. Coleman Prize 2009
- Meritorious Designation, Interdisciplinary Contest in Modeling 2009

Research

GRADUATE RESEARCH ASSISTANT 2013 – present
THE JOHNS HOPKINS UNIVERSITY
Advisor: Benjamin Van Durme
Developing topic identification for low-resource languages; researching impacts of gender categorization in NLP; researched automation of topic modeling in practice; maintained Python interface to NLP communication protocol.
RESEARCH INTERN Spring 2017
MICROSOFT RESEARCH NEW YORK
Supervisor: Hanna Wallach
Researched a hypothesized empirical trade-off between fairness and interpretability in practice.
GRADUATE RESEARCH ASSISTANT Summer 2014
SUMMER CAMP FOR APPLIED LANGUAGE EXPLORATION (SCALE)
Advisor: Benjamin Van Durme
Implemented stochastic variational inference for nested hierarchical Dirichlet

process topic model, mentored high school student to develop web visualization of model.

POST BACHELORS RESEARCH ASSOCIATE 2011 – 2013
PACIFIC NORTHWEST NATIONAL LABORATORY

Manager: Andrew Cowell

Supervisor: Andrew Stevens

Developed text analytics for social media and cyber data, implemented task-driven dictionary learning in parallelized parameter search framework, implemented information retrieval component of information extraction pipeline, developed internal desktop grid computing prototype, mentored college intern.

SYSTEM ADMINISTRATOR Fall 2010 – Spring 2011
HARVEY MUDD COLLEGE

Supervisors: Mike Erlinger, Richard Haskell

Developed dynamic web visualization of dorm energy usage.

STUDENT RESEARCHER Summer 2009
NORTH CAROLINA STATE UNIVERSITY

Modeling and Industrial Applied Mathematics REU

Advisor: Carl Meyer

Analyzed relative performance of sports ranking models on NFL game data extracted from the web.

CS DEPARTMENT CONSULTANT Fall 2007 – Spring 2008, Spring 2009
HARVEY MUDD COLLEGE

Supervisor: Mike Erlinger

Migrated internal knowledge base to wiki and migrated external web content to new site.

STUDENT RESEARCHER Summer 2008
HARVEY MUDD COLLEGE

GPS-ACS Network Management Project

Advisor: Mike Erlinger

Designed computer network to mimic GPS ground control network; configured, tested, and documented network monitoring device and server.

Publications

Chandler May, Alex Wang, Shikha Bordia, Samuel R. Bowman, and Rachel Rudinger. On Measuring Social Biases in Sentence Encoders. In *Proceedings of the 2019 Conference of the North American Chapter of the Association for Computational Linguistics*, to appear, 2019.

Rachel Rudinger,* Chandler May,* and Benjamin Van Durme. Social Bias in Elicited Natural Language Inferences. In *Proceedings of the First Workshop on Ethics in Natural Language Processing*, pages 74–79, 2017.

Benjamin Van Durme, Tom Lippincott, Kevin Duh, Deana Burchfield, Adam Poliak, Cash Costello, Tim Finin, Scott Miller, James Mayfield, Philipp Koehn, Craig Harman, Dawn Lawrie, Chandler May, Max Thomas, Annabelle Carrell, Julianne Chaloux, Tongfei Chen, Alex Comerford, Mark Dredze, Benjamin

Glass, Shudong Hao, Patrick Martin, Pushpendre Rastogi, Rashmi Sankepally, Travis Wolfe, Ying-Ying Tran, and Ted Zhang. CADET: Computer Assisted Discovery Extraction and Translation. In *The Companion Volume of the IJCNLP 2017 Proceedings: System Demonstrations*, pages 5–8, 2017.

Chandler May, Kevin Duh, Benjamin Van Durme, and Ashwin Lall. Streaming Word Embeddings with the Space-Saving Algorithm. Preprint, arXiv:1704.07463, 2017.

Chandler May, Ryan Cotterell, and Benjamin Van Durme. Analysis of Morphology in Topic Modeling. Preprint, arXiv:1608.03995, 2016.

Chandler May, Francis Ferraro, Alan McCree, Jonathan Wintrobe, Daniel Garcia-Romero, and Benjamin Van Durme. Topic Identification and Discovery on Text and Speech. In *Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing*, pages 2377–2387, 2015.

Chandler May, Alex Clemmer, and Benjamin Van Durme. Particle Filter Rejuvenation and Latent Dirichlet Allocation. In *Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics (Short Papers)*, pages 446–451, 2014.

Chandler May, Michael Henry, Liam McGrath, Eric Bell, Eric Marshall, and Michelle Gregory. Semantic Features for Classifying Referring Search Terms. In *The Pacific Northwest Regional NLP Workshop*, 2012.

Chandler May. Verification of Solutions to the Sensor Location Problem. Undergraduate thesis, Harvey Mudd College, 2011.

(Stars (*) denote equal contribution)

Talks

Chandler May. Ethics in artificial intelligence (in context). CLSP Student Seminar, Baltimore, MD. September 5, 2017.

Chandler May. Topic Identification and Discovery on Text and Speech. Conference on Empirical Methods on Natural Language Processing, Lisbon, Portugal. September 21, 2015.

Chandler May. Topic Identification and Discovery on Text and Speech. CLSP Student Seminar, Baltimore, MD. September 8, 2015.

Chandler May. Compressive Sensing: Introduction, Implementation, and Applications. PNNL Candidate Presentation, Richland, WA. May 2, 2012.

Chandler May. Verification of Solutions to the Sensor Location Problem. Thesis Presentation in HMC Presentation Days, Claremont, CA. May 2, 2011.

Chandler May. Verification of Solutions to the Sensor Location Problem. Pacific Coast Undergraduate Mathematics Conference, Los Angeles, CA. March 12, 2011.

Teaching

TEACHING ASSISTANT, KNOWLEDGE DISCOVERY FROM TEXT

Fall 2017

Technologies Proficient with C, Cython, Git, Python, R (tidyverse)

Familiar with Accumulo, Amazon Mechanical Turk, Ansible, AppVeyor, awk, AWS (EC2, S3, Route 53, SNS, STS, Lambda), bash, C++, CSS, d3, Docker, gcc, Gitlab CI, Hadoop, HTML, Java, JavaScript, Jenkins, LaTeX, Linux (Debian, Red Hat), Mac OS X, make, MATLAB, MPI, NumPy, OpenMP, PyTorch, Redis, sed, SGE, SLURM, SQL, Thrift, Travis CI, Windows

April 17, 2019