

CONTACT

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EDUCATION

Ph.D. Informatics Ongoing
University of Edinburgh
Supervisor: Adam Lopez
MSE Computer Science 2015
Johns Hopkins University
B.Sc Computer Science with Language Technologies minor 2013
Carnegie Mellon University
Sabbatical: Recurser Spring 2017
The Recurse Center
Experimental unstructured educational programming retreat.

RESEARCH EXPERIENCE

Research Assistant 2013-2015
Johns Hopkins University
Supervisors: Raman Arora, Adam Lopez, and Sanjeev Khudanpur.
Worked on normalization and representation of informal language text.
Undergraduate Research Assistant 2010-2013
Carnegie Mellon University
Supervisors: Chris Dyer and Noah Smith.
Projects included tweet dependency parsing; multithreaded language models; political corpus analysis.
Undergraduate Research Fellow Summer 2012
CLSP Summer Workshop at Johns Hopkins University
Supervisor: Matthew Blaschko.
Developed unsupervised learning methods to verify and explore image annotations from Mechanical Turk.
Selected from a competitive undergraduate pool.

INDUSTRY EXPERIENCE

Contractor Summer 2017
Koko
Developed neural classifiers for informal text at NYC startup.
Software Engineering Intern Summer 2015
Google
Supervisor: Marius Pasca (Common Sense Team, Machine Intelligence).
Unsupervised discovery of paraphrases of complex compositional noun phrases.
Software Engineering Intern Summer 2013
Google
Supervisor: Eric Altendorf (Common Sense Team, Machine Intelligence).
Integrated models of real-world knowledge into entity linking systems as an active feedback mechanism.
Engineering Intern Summer 2011
Facebook, Inc.
Supervisor: Jen Burge (Engagement Team).
Engineered and tested new features for the People You May Know model.

PUBLICATIONS

- Neubig, Graham et al. (2017). *DyNet: The Dynamic Neural Network Toolkit*.
- Saphra, Naomi and Adam Lopez (2016). "Evaluating Informal-Domain Word Representations With UrbanDictionary". In: *The First Workshop on Evaluating Vector Space Representations for NLP*.
- Saphra, Naomi and Arora, Raman (2015). "Domain Adaptation for Word Embeddings With Matrix Factorization". In: *Women in Machine Learning Workshop at NIPS*.
- Saphra, Naomi and Lopez, Adam (2015). "AMRICA: an AMR Inspector for Cross-language Alignments". In: *Proc. of NAACL*.
- Cotterell, Ryan, Adithya Renduchintala, Naomi Saphra, and Chris Callison-Burch (2014). "An Algerian Arabic-French Code-Switched Corpus". In: *Workshop on Free/Open-Source Arabic Corpora and Corpora Processing Tools Workshop Programme*.
- Schneider, Nathan, Brendan O'Connor, Naomi Saphra, David Bamman, Manaal Faruqui, Noah A. Smith, Chris Dyer, and Jason Baldridge (2014). "A framework for (under) specifying dependency syntax without overloading annotators". In: *Linguistic Annotation Workshop*.
- Vedaldi, A., S. Mahendran, S. Tsogkas, S. Maji, B. Girshick, J. Kannala, E. Rahtu, I. Kokkinos, M. B. Blaschko, D. Weiss, B. Taskar, K. Simonyan, N. Saphra, and S. Mohamed (2014). "Understanding Objects in Detail with Fine-grained Attributes." In: *Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*.
- Blaschko, Matthew, Ross Girshick, Juho Kannala, Iasonas Kokkinos, Siddarth Mahendran, Subhransu Maji, Sammy Mohamed, Esa Rahtu, Naomi Saphra, Karen Simonyan, et al. (2012). *Towards a detailed understanding of objects and scenes in natural images*. Tech. rep.
- Saphra, Naomi and Blaschko, Matthew (2012). "Automatic verification of boundary annotations from mechanical turk". In: *Women in Machine Learning Workshop at NIPS*.

TEACHING

Tutor <i>University of Edinburgh</i> Informatics Research Review; Probabilistic Modeling and Reasoning	2016-17
Course Assistant <i>Johns Hopkins University</i> Natural Language Processing	2013
Teacher's Assistant <i>Irvington High School</i> : Ancient Greek	2008-2009

SERVICE

- ACL 2014*
Student social co-chair.
- North American Computational Linguistics Olympiad*
Puzzle tester and local organizer.
- Carnegie Mellon TechNights*
Teacher of programming and computer science outreach classes for middle school girls.
- Tartanhacks*
Hackathon mentor, assisted teams trying to build machine learning systems.

AWARDS

- Google Europe Scholarship for Students with Disabilities.
- Carnegie Mellon School of Computer Science Dragon Award.
- National Merit Semifinalist.
- Irvington Computing Scholarship.