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Naomi Saphra

EDUCATION

University of Edinburgh — Expected 2021
Ph.D. Informatics
Supervisors: Adam Lopez and Tim Hospedales

Johns Hopkins University — 2015
MSE Computer Science

Carnegie Mellon University — 2013
B.Sc Computer Science with Language Technologies minor

The Recurse Center — Spring 2017
Sabbatical: Recurser
Experimental unstructured educational programming retreat.

PUBLICATIONS

Tahaei, Mohammad, Kami Vaniea, and Naomi Saphra (2020). "Understanding Privacy-Related Questions on Stack Overflow". In: *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems*.

Saphra, Naomi and Adam Lopez (2019). "Sparsity Emerges Naturally in Neural Language Models". In: *ICML Workshop on Identifying and Understanding Deep Learning Phenomena*.

Saphra, Naomi and Adam Lopez (2019). "Understanding Learning Dynamics Of Language Models with SVCCA". In: *NAACL*.

Saphra, Naomi and Adam Lopez (2016). "Evaluating Informal-Domain Word Representations With UrbanDictionary". In: *ACL Workshop on Evaluating Vector Space Representations for NLP*.

Saphra, Naomi and Raman Arora (2015). "Domain Adaptation for Word Embeddings With Matrix Factorization". In: *Women in Machine Learning Workshop at NIPS*.

Saphra, Naomi and Adam Lopez (2015). "AMRICA: an AMR Inspector for Cross-language Alignments". In: *NAACL*.

Cotterell, Ryan, Adithya Renduchintala, Naomi Saphra, and Chris Callison-Burch (2014). "An Algerian Arabic-French Code-Switched Corpus". In: *LREC Workshop on Free/Open-Source Arabic Corpora*.

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: *ACL Linguistic Annotation Workshop*.

Vedaldi, Andrea et al. (2014). "Understanding Objects in Detail with Fine-grained Attributes." In: *Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*.

Saphra, Naomi and Matthew Blaschko (2012). "Automatic verification of boundary annotations from mechanical turk". In: *Women in Machine Learning Workshop at NIPS*.

AWARDS

Daniella Sciama Award for Achievement through Adversity 2019.
Google Europe Scholarship for Students with Disabilities 2017.
Carnegie Mellon School of Computer Science Dragon Award 2013.
National Merit Semifinalist 2009.
Nannina Rasulo Memorial Scholarship Award for Technology 2009.

SUPERVISION

Alp Ozkan, MSc. 2018
    Combined Application of Pruning and Growing Approaches for Neural Networks.
Yekun Chai, MSc. 2018
    Discovering Spelling Variants on Urban Dictionary.

TEACHING

University of Edinburgh   2016-2019
Tutor
    Informatics Research Review (2016)
    Probabilistic Modeling & Reasoning (2019)
    Machine Learning & Pattern Recognition (2017, 2018, 2019)
Johns Hopkins University   2013
Course Assistant
    Natural Language Processing
Irvington High School   2008-2009
Teacher's Assistant
    Ancient Greek

WORK EXPERIENCE

Google   Winter 2020
Research Intern
    Supervisor: Dipanjan Das.
    Better understanding of how BERT learns.
Koko   Summer 2017
Contractor
    Developed neural classifiers for informal text at NYC startup.
Google   Summer 2015
Software Engineering Intern
    Supervisor: Marius Pasca (Common Sense Team, Machine Intelligence).
    Unsupervised discovery of paraphrases of complex compositional noun phrases.
Google   Summer 2013
Software Engineering Intern
    Supervisor: Eric Altendorf (Common Sense Team, Machine Intelligence).
    Integrated models of real-world knowledge into entity linking systems as an active feedback mechanism.
CLSP Summer Workshop at Johns Hopkins University   2012
Undergraduate Research Fellow
    Supervisor: Matthew Blaschko.
    Developed unsupervised learning methods to verify and explore image annotations from Mechanical Turk.
    Selected from a competitive undergraduate pool.
Facebook, Inc.   Summer 2011
Engineering Intern
    Supervisor: Jen Burge (Engagement Team).
    Engineered and tested new features for the People You May Know model.

TALKS

INVITED EVENT TALKS

Accessible Means Hackable (Keynote) June 2020
Pydatafest Amsterdam
    Amsterdam, Netherlands
Blackbox NLP Panel Discussion August 2019
ACL Blackbox NLP Workshop
    Florence, Italy

INVITED VISIT TALKS

Brown University May 2020
    Providence, RI
Element AI September 2019
    London, UK
Allen Institute for AI August 2019
    Seattle, WA
City University of New York May 2019
    New York, New York
University of Amsterdam January 2019
    Amsterdam, Netherlands

OUTREACH

Get Hooked on Pytorch Hooks! March 2020
!!Con West
    Santa Cruz, CA
Carbon AI and the Concentration of Computational Work September 2019
Challenging the Work Society
    London, UK
Paying the Panopticon (standup comedy) Feb 26, 2019
The Stand Edinburgh Comedy Club
    Edinburgh, UK

SERVICE

Association for Compuational Linguistics (ACL) 2020
    Accessibility Subcomittee.
Radical Utopian Sci-Fi Enclave (RUSE) co-organizer (2019-)
    Organize monthly department political sci-fi book club.
Staff Pride Network disability representative (2019-)
    Representative for disabled students in school-wide LGBTQ+ network.
ILCC Cookie Czar (2017-2020)
    Organize weekly department social event.
Edinburgh ML4NLP Reading Group (2018-)
    Organize and lead weekly reading group.
Association for Compuational Linguistics (ACL) 2014
    Student social co-chair.
North American Computational Linguistics Olympiad (2012-2014)
    Puzzle tester and local organizer.
Carnegie Mellon TechNights 2012
    Taught machine learning and NLP classes for middle school girls in CS outreach program.

REVIEWING

- Conferences
  - ACL
  - ICML
  - EMNLP
  - NAACL
  - NeurIPS (secondary)
- Workshops
  - BlackboxNLP Workshop
  - RepEval NLP Workshop
  - Learning With Limited Data Workshop
  - Women in Machine Learning Workshop
  - Widening NLP Workshop