HAYLEY ROSS

https://rossh2.github.io
hayleyross@g.harvard.edu

EDUCATION

PhD in Linguistics, Harvard University, United States   2020 – pres
› Research in semantics (theoretical and experimental) and computational linguistics
› Advisor: Gennaro Chierchia
› GPA 4.0

MS in Computational Linguistics, Brandeis University, United States   2018 – 2020
› Focus on computational semantics, modal logic, annotation and NLP
› Master's Thesis *'The Falsity of the Consequent in Contrastive Conditionals'*
  Supervisor: Prof. James Pustejovsky
› GPA 4.0

Master of Mathematics, University of Oxford, United Kingdom   2011 – 2015
› First class honors (master's year), 2.i (bachelor's years)
› Final average 77.25/100 [70 and above awards a first class degree]
› Focus on set theory, logic and topology
› Master's Thesis '*The Iterative Conception of Set Theory*'
  Supervisor: Dr. Robin Knight

Wettingen Cantonal School, Switzerland   2007 – 2011
› Final average 5.85/6 (highest in year)
› Focus on mathematics, physics, philosophy and Latin

PUBLICATIONS

Min, Bonan, **Hayley Ross**, [6 others], and Dan Roth (2021). 'Recent Advances in Natural Language Processing via Large Pre-Trained Language Models: A Survey.' *arXiv preprint arXiv:2111.01243*.

Ross, Hayley (*in review*). 'Implications of the Danish Definiteness Alternation for Concord in Nanosyntax'.

Hayley Ross, Jonathon Cai, and Bonan Min (2020). 'Exploring Contextualized Neural Language Models for Temporal Dependency Parsing'. In *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP)*.

Hayley Ross (2020). The Falsity of the Consequent in Contrastive Conditionals'. In *Proceedings of the ESSLLI & WeSSLLI Student Session 2020*.

EXPERIENCE

Research Intern at Raytheon BBN Technologies, Cambridge, United States   Summer 2019
- › Researched neural network architectures for parsing temporal relations
- › Implemented and improved a neural model based on 2018/2019 papers
- › Achieved 8 point F1 improvement over state of the art (submitted for publication)

Software Developer at Ghyston, Bristol, United Kingdom   2015 – 2018
- › Developed full-stack projects across industries and languages, including a 10x faster CSV-to-SQL processor, a visual template UI for financial XML, and a live bus tracker
- › Managed a two-person project, handling proposal, implementation and final launch
- › Trained client developers in new languages, providing templates and code reviews
- › Mentored students from Bristol University writing a C#/Xamarin mobile app

Intern at TNG Technology Consulting, Munich, Germany   Summer 2012
- › Developed a graphical interface in JavaScript for a custom formal grammar
- › Reviewed code for other interns on the project

Intern at Ergon Informatik, Zurich, Switzerland   Summer 2011
- › Developed a module in Java to compare GPS data sets

ACTIVITIES

Harvard-Radcliffe Collegium Musicum, Harvard University   2020 – pres

Brandeis University Chamber Singers, Brandeis University   2018 – 2020

Bristol Choral Society, Bristol, United Kingdom   2015 – 2018

Code Club Volunteer, Bristol, United Kingdom   2016
- › Taught children from disadvantaged backgrounds how to program in Scratch
- › Certified STEM Ambassador

Peer Support Program, University of Oxford   2013 – 2015
- › Certified Peer Supporter (30 hours of training in communication and listening)

Corpus Christi Chapel Choir, University of Oxford   2011 – 2015

FIRST Lego League Robotics Championships, Switzerland and International   2006 – 2010
- › Qualified yearly for world championships in Copenhagen, Istanbul, and Atlanta

LANGUAGES AND SKILLS

- › Java, Python, SQL, JavaScript, TypeScript, CSS, LaTeX, Git (proficient)
- › Haskell, C#, Bash, Unix / Linux (familiar)
- › German (bilingual), French and Latin (proficient)

AWARDS

Aravind K. Joshi Award
for Outstanding Achievement in Computational Linguistics, Brandeis   2020

College Scholarship/Exhibition, Oxford (awarded yearly)   2012 − 2015

William Buckland Award, Oxford (awarded termly)   2012 − 2013

Silver Medal, Swiss Mathematics Olympiad, at national level   2011

Bronze Medal, Swiss Mathematics Olympiad, at national level   2010