

HAYLEY ROSS

<https://rossh2.github.io>
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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*.

Hayley Ross (*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*.

CONFERENCE PRESENTATIONS

Hayley Ross, Gennaro Chierchia and Kathryn Davidson (2022). 'Quantifying weak and strong crossover for wh-crossover and proper names.' At *Sinn und Bedeutung 27*.

EXPERIENCE

Research Intern at Raytheon BBN , Cambridge, United States	Summer 2022
<ul style="list-style-type: none">› Conducted controlled experiment to compare two methods of event extraction› Analyzed dataset using embedding t-SNEs and dependency parses	
Research Intern at Raytheon BBN , Cambridge, United States	Summer 2019
<ul style="list-style-type: none">› 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 (see publications)	
Software Developer at Ghyston , Bristol, United Kingdom	2015 – 2018
<ul style="list-style-type: none">› 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
<ul style="list-style-type: none">› 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
<ul style="list-style-type: none">› 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
<ul style="list-style-type: none">› Taught children from disadvantaged backgrounds how to program in Scratch› Certified STEM Ambassador	
Peer Support Program , University of Oxford	2013 – 2015
<ul style="list-style-type: none">› 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
<ul style="list-style-type: none">› Qualified yearly for world championships in Copenhagen, Istanbul, and Atlanta	

LANGUAGES AND SKILLS

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

AWARDS

Douglas Dillon Fellowship Fund , Harvard	2020 – 2022
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