Zébulon Goriely

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in in/zgoriely

2018

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Education University of Cambridge Cambridge, UK Ph.D in Computer Science - Computation Linguistics 2021 - present • Researching Child Language Acquisition and Natural Language Processing Reviewer for CoNLL 2022 University of Cambridge Cambridge, UK 2017 - 2021B.A (Hons) + M.Eng (Hons.) in Computer Science • Achieved a First in every year of the B.A (82% in final year) • Achieved a Distinction in the M.Eng (90% overall, ranked 2nd) The Cherwell School Oxford, UK 2015 - 2017*A-Levels* (**4 A*s** in Maths, Futher Maths, Physics, Computer Science) AS-Levels (A in Photography) Magdalen College School Oxford, UK GCSEs (**10** A*s) 2013 - 2015**Academic Awards** • Cambridge Trust Vice-Chancellor's Scholarship (PhD funding) 2021 • Best Part III dissertation (with a dissertation score of 96) 2021 • President's Prize for Computer Science (for a significant Distinction in the M.Eng.) 2021 • Queens' Foundation Scholarship (for a First in the B.A.) 2021 • Queens' College Computer Science Prize (for a First in end-of-year exams) 2018,2019,2020 Research Transformer Language Models and Child Language Acquisition Ph.D Research Developing a phoneme-based transformer language model for studying language acquisition • Training the model on child-directed speech from CHILDES Exploring the acquisition of words, morphology and syntax across multiple languages Word Segmentation from Child-Directed Speech Using Multiple Cues M.Eng Dissertation Created a word segmentation model that outperformed prior work Evaluated on 26 languages, investigating information-theoretic properties Simulating Language Learning and Evolution **B.A** Dissertation Developed a simulation of entities learning language and evolving with a genetic algorithm • Entities modelled using feed-forward neural networks and evaluated against prior work **Employment History** Engineering roles. Optiver – Tech Intern 2020 Developed a command-line tool to assist developers, working independently towards a team's goals

Chosen out of a pool of 1000 applicants for the internship and offered a full-time position afterwards

Taught basic principles of finance through the Optiver introductory lecture series

Developed testing models of the Java Runtime Library to increase coverage

Worked in a team of researchers and contributed to the code baseAdhered to strict coding standards and unit-tested contributed code

Diffblue - Tech Intern

Teaching roles.	
 University of Cambridge – Supervisor / Demonstrator Paid supervisor and demonstrator for several undergraduate Computer Science courses Courses: Computation Theory, Machine Learning and Real-World Data and Formal Models of Language 	2021 – present
 Doxa / Oros Education / Whetstone Tutors – Online Tutor Delivers lessons in programming and Oxbridge applications to students aged 13 to 18 	2019 – present
Gillots School – Teaching Internship Trained in teaching and taught lessons to year 10 students in Computer Science in Maths	2019
Outreach roles.	
 Sutton Trust – Supervisor Supervised and demonstrated example lessons in Computer Science for sixth-form students 	2022
Slipstream Education / Clydeside Education – Online Mentor • Volunteered to assist disadvantaged students seeking to apply to Oxbridge	2020, 2021
 Queens' Access Road Show – Speaker Delivered presentations to hundreds of students at a dozen target schools Spoke to students and answered questions about university applications and Cambridge 	2019
Committee / Teamwork Roles	
 Watersprite Film Festival – Festival Head of Operations Overseeing all operations of the second-largest student film festival in the world Managing and recruiting a team of 60+ students across 8 departments Organising the judging of 1400+ films by 200+ volunteer judges Planning events, securing funding and inviting speakers to present at the festival 	2022 – present
 Cambridge University Film Association – Production Officer Presented a series of workshops for students interested in filmmaking 	2019 – 2021
 Managed the lending of the society's filmmaking equipment to members Queens' College JCR – Computer Officer, Secretary Ran meetings and communications between the undergraduate body and college Published a weekly newsletter, organised surveys and kept minutes Managed communication and technological demands of the committee 	2018 – 2020
 Varsity – Head of Video Filmed, produced and edited features for the world-class student newspaper Oversaw and managed all video production by the team 	2017 – 2018
Creative Pursuits	
 FilmByZeb Youtube Channel Produced over 100 videos with a focus on story-telling and high production value Professional videos for Hannibal Buress, Queens' College and the Department of CS Created a series of viral Tiktoks, amassing a total of 1.5M views and 130k likes 	2016 – present
 Cambridge Theatre and Cambridge Film Involvements Experience with directing, producing, sound, lighting, publicity and videography Involved with 25 plays and 7 short films, including <i>Day in the Mind</i> and <i>Convalescence</i> 	2017 – 2021
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Publications

Zébulon Goriely, Andrew Caines, and Paula Buttery. Word segmentation from child-directed speech using multiple cues. Manuscript submitted for publication, 2022.

References available on request.