

YIRAN SHAO

Bio+CS undergrad at Western University

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ACADEMIC INFORMATION

Sep 2018	Honour Bachelor of Science, Honour Double Major in Biology and Computer Science
May 2022	<ul style="list-style-type: none">➤ The University of Western Ontario, London, ON➤ CGPA : 3.65/4.00, last two years GPA : 3.89/4.00➤ Independent Research Study in Biology (BIO4970)<ul style="list-style-type: none">➤ Title : “Modelling the Range Expansion of the Eurasian Collared-Dove (<i>Streptopelia decaocto</i>) through Canada”➤ Supervisor : Dr. Simon Bonner➤ This study describes and predicts the expansion of the range of the Eurasian collared-dove in Canada through applying an occupancy model using R.➤ Research Project in Computer Science (CS3380)<ul style="list-style-type: none">➤ Title : “Drawing Algorithms for Trees with Time-series Data”➤ Supervisor : Dr. Art Poon➤ This study analyses and implements various tree drawing algorithms on the CoVizu project to enhance visualization of the phylogenetic tree of SARS-CoV-2 variants.

SCHOLARSHIPS AND ACADEMIC HONOURS

Mar 2022	NSERC Undergraduate Student Research Award (USRA) , \$6,000 CAD
Sep 2018	Western Entrance Scholarship of Excellence , \$2,000 CAD
May 2019	Dean's Honour List
Present	

PRESENTATIONS

Mar 2022	Shao, Y., Bonner, S. & Kim H. (2022). Occupancy Modelling of the Invasive Eurasian Collared-dove in Canada. Oral presented at the Ontario Chapter of The Wildlife Society, ON, Canada.
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WORK EXPERIENCE

Oct 2021	Disease Assessment Licensing Intern, JSURE HEALTH INC.
Mar 2022	<ul style="list-style-type: none">➤ Shanghai, China (Remote)➤ Obtained copyright permissions requested by sponsors from disease rating scale publishers.➤ Confirmed information from licenses by checking databases and questioning details with sponsors.➤ Designed communication process to increase work efficiency between intern and licensing officers.
Aug 2020	Medical Editor, JSURE HEALTH INC.
Feb 2021	<ul style="list-style-type: none">➤ Shanghai, China (Remote)➤ Conducted secondary source search for the study entitled “Common Instruments of Atopic Dermatitis in Chinese and English”.➤ Ensured that the content, format and structure of the manuscripts comply with internal regulatory and journal guidelines.
Dec 2019	Peer Tutor, BLUEKEY EDUCATION LTD.
Apr 2022	<ul style="list-style-type: none">➤ London, Ontario➤ Conducted bi-weekly study hours and discovery sessions to promote student engagements.➤ Revised class plans to facilitate classroom discussions and student-centered learning.

TECHNICAL SKILLS

Programming Languages	Python, R, Bash/Shell, Java, C/C++, MySQL, CUDA, \LaTeX
Libraries/Packages	Pandas, Matplotlib, BioPython, AutoGluon, scikit-learn
Operating Systems	UNIX/Linux, MacOS, Windows
Version Control	GitHub, BitBuckets with Git
Wet Lab	Transformation of <i>E. coli</i> with plasmid DNA, SDS-PAGE, Western blot, PCR, Cell culture

LANGUAGES

English	    
Mandarin	    
Klingon	 