

YIRAN SHAO

Graduate Student at the University of Toronto, Molecular Genetics Program

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ACADEMIC INFORMATION

Sep 2022 Present	Master of Science, Molecular Genetics <ul style="list-style-type: none">University of Toronto, Toronto, ON
Sep 2018 May 2022	Honour Bachelor of Science, Honour Double Major in Biology and Computer Science <ul style="list-style-type: none">University of Western Ontario, London, ONGPA : 3.65/4.00, last two years GPA : 3.88/4.00Independent 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 BonnerResearch Project in Computer Science (CS3380)<ul style="list-style-type: none">Title : "Drawing Algorithms for Trees with Time-series Data"Supervisor : Dr. Art Poon

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 May 2022	Dean's Honour List

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.
Mar 2022	Shao, Y., Bonner, S. & Kim H. (2022). Predicting the Occupancy of Eurasian Collared-dove in Canada. Poster presented at Inspiring Diversity in STEM 2022 Conference, ON, Canada.

WORK EXPERIENCE

May 2022 Present	Research Assistant (NSERC-USRA Summer Intern), WESTERN UNIVERSITY <ul style="list-style-type: none">London, OntarioExtended and implemented hierarchical model in R and JAGS to predict the spatial spread pattern of the Eurasian collared-dove in North America.Received, cleaned and prepped data from Project FeederWatch, WorldClim and Landsat with R and QGIS to assist modelling.
Oct 2021 Mar 2022	Disease Assessment Licensing Intern, JSURE HEALTH INC. <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 Feb 2021	Medical Editor, JSURE HEALTH INC. <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.

TECHNICAL SKILLS

Programming Languages	Python, R, BUGS, Bash/Shell, Java, C/C++, SQL, \LaTeX
Libraries/Packages	Pandas, Matplotlib, BioPython, scikit-learn, AutoGluon; tidyverse, ggplot2, rjags
Version Control	GitHub, BitBuckets with Git
Wet Lab	Cell culture, Transformation of <i>E. coli</i> with plasmid DNA, SDS-PAGE, Western blot, PCR

LANGUAGES

English	    
Mandarin	    
Klingon	 