Jillian Shao

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EDUCATION

Master of Science (M.Sc.) - Biology, Marine Ecology Expected 2022
Université Laval, Québec City, QC, Canada
Project: Using computer modelling to investigate the distribution, dispersal, and movement of *Littorina littorea* and microhabitat selection in intertidal mudflat ecosystems.

Bachelor of Science (B.Sc.) - Computer Science and Biology 2014 - 2019
McGill University, Montréal, QC, Canada
Academic Honours: J.W. McConnell McGill Scholarship, Queen Elizabeth II Undergraduate Award, Science Lab Without Borders Undergraduate Award, Benzacar and Davidovic Internship Award

SKILLS

Hard Skills: Scientific Computing, Statistical Modelling, Natural Language Processing, Computer Vision, Data Visualization
Soft Skills: Independent Worker, Time Management, Organisation, Adaptability, Explorer
Coding Languages: Python, R, SQL, Java
Natural Languages: English, Mandarin, French

EXPERIENCE

Rotating Planet Productions - Research and Development | October 2019 - October 2021
Montréal, QC, Canada

- Researched, fact-checked, and developed ideas and pitches for new wildlife, science, and social science documentaries
- Write press releases, social media posts, publicity announcements, and presentations
- Manage social media and create marketing campaigns

Tactio Health Group - Data Scientist | June 2019 - October 2019
Montréal, QC, Canada

- Developed machine learning pipeline for new computer vision projects
- Collected, labelled, and processed images to build database
- Wrote Python code for SQL database integration and data analysis

PROJECTS

Effects of microhabitats on movement and distribution in the marine gastropod *Littorina littorea* - Master's Project
Investigate the microhabitat preferences of *Littorina littorea* in mudflats, document the pattern of microhabitat use and assess the generality of this pattern over different spatial scales using statistical modelling, Markov chains, random walks, and kernel density estimation.

Stylistic Text Generation
Implemented linear interpolation, Markov models, and recurrent neural networks using Python libraries scikit-learn and NLTK to analyse English song lyrics and generate new text stylistically.

Network analyses versus metapopulation modelling for ocean conservation – Undergraduate Project
Comparing the results of various graph network analyses algorithms and metapopulation models on networks of pelagic larvae dispersal in the Pacific Ocean for conservation potential.