**Duncan Wang**

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**EDUCATION**

**McGill University,** Desautels Faculty of Management Montreal, Canada

*Master of Management in Analytics* Aug 2020 – Jun 2021

* GPA: 3.85, Webb-Wong Family Masters Fellowship

Analytics Consulting Project with Pratt & Whitney Canada Montreal, Canada

*Consultant, Data Analytics & Modeling* Oct 2020 – Present

* Developing an end-to-end solution for visualizing, tracking, and predicting engine part returns to enable advance-repair scheduling and avoid costs incurred from out-of-warranty repairs
* Leveraging graph adjacency matrices to link repair histories and Python machine learning algorithms (clustering, anomaly detection, ARIMA, LSTM neural networks) to predict future repair patterns

**McGill University,** Faculty of Arts & Science Montreal, Canada

*Major in Sustainability Science, Minor in GIS & Remote Sensing* Sept 2016– May 2020

* GPA: 3.70, First Class Honours, Dean’s Multidisciplinary Research List, Science Undergraduate Research Award, School of Environment Research Award, Global Health Research Scholarship

**TECHNICAL SKILLS**

**Statistics & ML**: Python (Pandas, Scikit-learn, Tensorflow, Keras), R, SPSS | **Databases**: MySQL, Neo4j **Geospatial**: ArcGIS, QGIS, Mapbox GL JS | **Other**: Microsoft Office, AWS, Javascript/CSS/HTML

**PROFESSIONAL EXPERIENCE**

**Redpath Museum, McGill University**Montreal, Canada

*Research Assistant* Sept 2019 – Aug 2020

* Led design and implementation of laboratory experiments, produced novel evidence supporting temperature mediated effects of microplastic pollution on an invasive North American fish, and called for further study
* Conducted inferential modeling (ANCOVA) of experimental data in R Studio to develop recommendations supporting value of incorporating combined/interaction effects frameworks into future ecological studies

**Global Health Programs, McGill University**Montreal, Canada

*Research Scholar*  May 2019 – Oct 2019

* Collected and synthesized pharmaceutical patent data using Excel VBA to produce visual reports which facilitated communication of key R&D trends to industry experts & academics at two research symposiums

**Meridian Lightweight Technologies**  Strathroy, Ontario

*Occupational Health and Safety Intern*  Jun 2018 – Aug 2018

* Designed a new health and safety benchmarking system for self-auditing employee regulatory compliance, receiving approval from Canada and US directors to pilot project at head manufacturing facility

**LEADERSHIP AND EXTRACURRICULARS**

**McGill Arts & Science Undergraduate Society**Montreal, Canada

*President, Vice President of Academic Affairs* May 2018 – May 2020

* Managed team with six role portfolios, three constituent organizations, and funds of $30,000; created new academic resources & networking opportunities for faculty, growing annual participation by 30%

**World Wildlife Fund (McGill Student Club)** Montreal, Canada

*Co-President* Sept 2017– Sep 2020

* Grew engagement by creating and filling 6 new positions & curating content for online audience of 1000+
* Built new external partnerships with WWF Canada by bringing “Living Planet Leaders” program to McGill

**SKILLS AND INTERESTS**

**Languages**: English, Chinese

**Interests**: Herpetology, Ichthyology, & Running