Renee Gil

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Ottawa, Canada

SKILLS

- **Languages:** Python, C++, Julia, Fortran
- **ML/AI:** PyTorch, TensorFlow, scikit-learn, Deep Learning, Graph Neural Networks, Reinforcement Learning
- **Data Science:** pandas, NumPy, Statistical Analysis, Time Series Forecasting, Optimization Algorithms
- **Tools & Technologies:** Git, CUDA, HPC Systems, Linux, Docker

WORK EXPERIENCE

Data Scientist May 2021 - Present
Carleton University, Ottawa, ON

- Develop data pipelines fokj/r generating, processing, and analyzing 1TB+ of data
- Develop High Performance Computing (HPC) workflows for large-scale deep learning models
- Design and conduct workshops on applied data science to chemistry

AI Data Scientist May 2021 - Present
Carleton University, Ottawa, ON

- Develop data pipelines for generating, processing, and analyzing 1TB+ of data
- Develop High Performance Computing (HPC) workflows for large-scale deep learning models
- Design and conduct workshops on applied data science to chemistry

Machine Learning Engineer Sep 2021 - Present
Burkett Statistical Consulting, Ottawa, ON

- Led development of optimization algorithm for car paint schedule automation for several plants of a global automotive supplier, increasing order capacity by 300% while meeting plant constraints
- Developed time series forecasting model for efficient power distribution for large users and energy storage systems, improving price forecasting accuracy by 8%
- Consulted on development of energy arbitrage algorithm based on reinforcement learning and linear programming
- Developed end-to-end machine learning pipeline for monitoring mental exertion levels in concussed individuals

EDUCATION

PhD in Chemistry May 2021 - Present
Carleton University, Ottawa, ON

Thesis: *"Data-Driven Approaches in Covalent Drug Discovery"*

OPEN SOURCE WORK

Developer
Google Summer of Code

- Lead the development of a Julia library (Cclib.jl) for processing quantum chemistry data
- Lead the conversion of a Python library (Chemtools) from Python 2 to Python 3
- Wrote documentation and tutorials for both libraries