# Patrice Bechard

Data Scientist · M.Sc. Machine Learning · B.Sc. Physics

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## Experience

**Intact Financial Corporation** — *Montréal, QC*
Data Scientist — *May 2019 - Present*
- Working on the NLP team
- Leveraging large scale pretrained language models to solve real world problems

**Intact Financial Corporation** — *Montréal, QC*
Data Science Intern — *Sep. 2018 - May 2019*
- Worked on the usage-based insurance (UBI) team
- Used PySpark, SQL and Hive on Big Data problems

**Option Femmes Emploi** — *Gatineau, QC*
IT Technician — *Jun. 2017 - Jul. 2017*
- Network administrator
- Automated tasks using Python and bash
- Worked on databases using MS Access and SQL

**Université de Montréal** — *Montréal, QC*
Teaching assistant — *Jan. 2017 - Apr. 2017*
- TA for the special relativity course (PHY1652)

**Astrophysics Research Center of Quebec** — *Montréal, QC*
Research assistant — *May 2016 - Aug. 2016*
- Created a statically unbiased census of white dwarf stars within a radius of 40pc of the Sun
- Had multiple telescopic observation nights at the Mont-Mégantic Observatory (OMM)

## Education

**Montreal Institute for Learning Algorithms, Université de Montréal** — *Montréal, Qc*
M.Sc. Machine Learning, 4.2/4.3 GPA — *Sep. 2017 - May 2019*

**Université de Montréal** — *Montréal, Qc*
B.Sc. Physics, 4.0/4.3 GPA — *Sep. 2014 - Apr. 2017*

## Committees

2018    **Member**, Perspectives on the social issues of artificial intelligence — *Montréal, Qc*

## Presentations

2018-2019   **Pattern Recognition with Geospatial Data**, McGill Hackathon, PolyHx Hackatown
Nov. 2018   **Understanding Human Language : Neural Approaches**, Flash-Bac, Physics Department, UdeM
Apr. 2018   **Deep Learning : Introduction and Applications in Physics**, Flash-Bac, Physics Department, UdeM
Mar. 2018   **Classification of Stars According by Machine Learning**, Symposium-SAPHARI, UdeM
Aug. 2017   **Network Science**, Summer Interns Conferences, Physics Department, UdeM

## Honors & Awards

2016    **Recipient**, Undergraduate Student Research Award (USRA) from the NSERC

## Other Important Information

- Fluent in english, french and Python
- Knowledge of various programming languages (MatLab, Octave, R, C, C++, Fortran77, SQL, bash)
- Great knowledge of UNIX, git, LaTeX
- Knowledge of Numpy, Pandas, Matplotlib, PySpark
- Knowledge of various machine learning and deep learning frameworks (PyTorch, Tensorflow, Keras, Scikit-Learn)
- Implemented many Deep Learning algorithms such as Seq2Seq, Transformer, DCGAN, Neural Turing Machine, QANet