# Robert F. Archibald PhD

Montreal, QC

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### Summary\_

Currently a Senior Data Scientist in the Global Data Office at Manulife. I received my PhD in astrophysics from McGill University, where I studied some of the most extreme objects in the universe. Always open to exploring new fields & digging in to data.

# Work Experience \_\_\_\_\_

**Manulife** Montreal, OC

SENIOR DATA SCIENTIST November 2019 - Present

• Reduced cost & compute time of stochastic market simulations by >90%, while satisfying the tight constraints of a heavily regulated industry.

#### Manulife / ICON Consulting

HIGH PERFORMANCE COMPUTING SPECIALIST

September 2018 - November 2019

- Maintained python azure sdk tools to manage a large (~ 2000 vm) scalable compute environment for batch processing jobs.
- · Developed a fully unit tested data validation / ETL tool that could parse & compare data from COBOL files, SQL, csvs, excel files, & more.
- CI-CD of python dash web apps to live monitor usage & costs.

**University of Toronto** Toronto Ont.

POSTDOCTORAL FELLOW

September 2017 - September 2018

• Designed & implemented an automatic search of X-ray telescope data (~similar to video) to flag interesting, time varying sources in a many year, 100s of Gb dataset.

McGill Montreal OC

RESEARCH ASSOCIATE, DOCTORAL WORK

May 2011 - August 2017

June 2014 - October 2017

Montreal, QC

Halifax, NS

- Developed a python based software package to do near real-time analysis of on ongoing multi-year monitoring program of several objects
- Planned observing campaigns of many pulsars using space based telescopes to make efficient use of resources.
- Published 25 articles with > 700 citations in peer reviewed journals.

## Education

McGill

McGill Montreal, QC

PHD (PHYSICS)

• Thesis Title: X-ray Timing of Young Pulsars; Supervisor: Prof. V. M. Kaspi

MSc (Physics) September 2011 - June 2014

• Thesis Title: An Anti-glitch in a Magnetar; Supervisor: Prof. V. M. Kaspi

**Dalhousie University** 

June 2014 - October 2017 BSc (Physics)

· Thesis Title: Factoring by Adiabatic Quantum Computation; Supervisor: Prof. J. Kyriakidis

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