

ANNABELLE CHUINARD

Post Graduate Working Permit

☞ I am a creative DATA scientist with a nimble mind and a strong-willed heart. ☞



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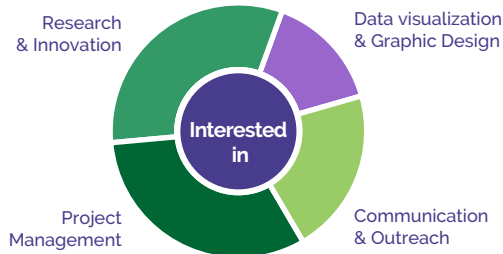
<https://achuinar.github.io>



anabelchuinard



as latest degree from
McGill University



LANGUAGES

Spoken Written

French

English

German

ON A TIMELINE ...

EXPERIENCE & EDUCATION

Collaborative Research:

Ph.D. in Experimental Particle Physics (ATLAS experiment) [McGill U.] (2012-2018)

- developed C++ based algorithms collaboratively to clean and analyze large datasets,
- coordinated data acquisition software maintenance and testing using Agile tools,
- reported results in publications and at conferences (more than 50 presentations).



Ph.D. Award: Swiss National Science Foundation Grant (10/2014-8/2016)

M.Sc. in Physics (LHCb experiment) [Ecole Polytechnique Fédérale Lausanne] (2011-2012)

- optimized multivariate statistical techniques to select rare events in large data sets.



Non-Academic Experiences:

Quantitative Strategy Consultant [DeepND - UBC incubated] (since 02/2018)

- designed and tested Proof-of-Concept (PoC) with own-implemented python machine learning algorithm using a cloud computing platform,
- formulated data-ask for PoC partners, coordinated data collection and storage,
- developed interdisciplinary research partnerships with universities.

Data Ambassador [MtlGreen] (since 11/2018)

- analyzed demographic data to optimize the marketing strategy of a green startup.

Partner Carboscope, Fintech Startup, Prompt/Catallaxy grant

- conceived a business plan in the context of an innovation competition (Cooperathon)
- provided guidance on data collection for benchmarks and carbon footprint analysis,
- designed platform prototype and educational visuals.

Member of Data For Good [Notman House] (since 5/2018)

- cleaned data from an organization offering shelter to women victims of domestic abuse.



Science Communication:

Physics Graduate Teaching and Learning Coordinator [McGill U.] (2014-2017)

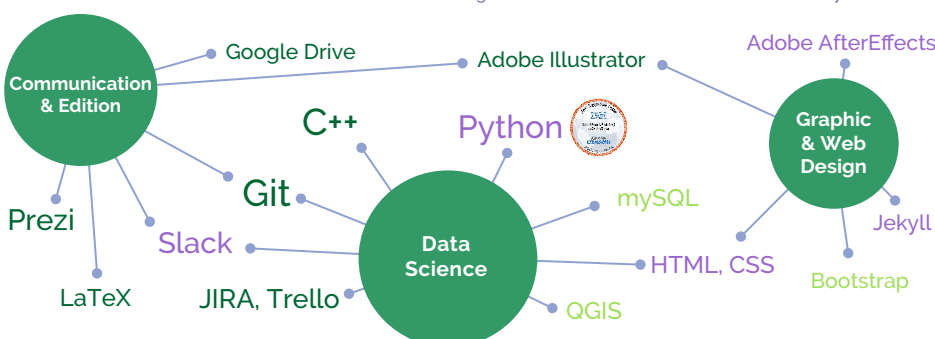
- chaired a group of 8 volunteers fostering quality teaching in the department,
- organized events: contacted speakers, planned formation, liaised with other faculties.
- assessed the quality of teaching and produced a report for the faculty.

Member of the Space Explorer Program [McGill U.] (2015-2017)

- developed and presented inquiry-based activities for elementary school teachers.

IN MY TOOLBOX

Strong Level Intermediate Level Elementary Level



2019

Experience Events Education

Upcoming **ATLAS Publication**

To be featured in Physics Letters B
"Measurement of the inclusive single diffractive dissociation cross-section of pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector using the ALFA forward detectors"

12/2018 **Moved to Vancouver**

10/2018 **Won Catallaxy and Prompt Innov. Grants**

Carboscope Startup at Cooperathon for impact traceability and innovation in mobility

9/2018 **Joined Carboscope Team**

within Desjardins Cooperathon Innovation Contest

6/2018 **Joined Data For Good - Montreal**

5/2018 **Ph.D. Defense**

3/2018 **ATLAS Editorial Board Meetings**
Validation of ATLAS physics analysis

7/2016 **CTEQ Summer School, Hamburg**
on Monte Carlo simulation techniques

4/2016 **First Author Publication**

in Journal of High Energy Physics
"Testing Pomeron flavour with W boson charge asymmetry"

5/2015 **Invited Phenomenology Talk**
Workshop on Forward Physics in Copenhagen

1/2015 **Joined Space Explorer Program**
Outreach program at McGill University

8/2014 **Start of Swiss National Foundation Grant**

6/2014 **Appointed as Teaching Coordinator**

4/2014 **Organizer of a workshop for College students**
about Particle Physics at McGill

1/2014 **Physics Games 2014**

9/2013 **Joined Eclairs de Science**
Outreach program at Conference Regionale des Elus de Montreal

7/2013 **Women in Physics Canada**
at Simon Fraser University

9/2012 **Start of Ph.D. in ATLAS**

7/2012 **M.Sc. in Physics Graduation**
from Ecole Polytechnique Federale de Lausanne, Switzerland

2012