

# Curriculum Vitae

Celine Beier

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**Languages** English (C2), German (C2), French (A2), Spanish (A2), Latin

## Education

- 09/2021 - 08/2023 McGill University, Montreal  
Master of Science in Physics with a specialisation in Experimental High Energy Physics
- 09/2019 - 04/2020 Queen's University, Kingston  
Exchange student at the Faculty of Arts and Science  
Courses in art history and materials engineering
- 10/2017 - 04/2021 Heidelberg University  
Bachelor of Science in Physics  
Additional courses in chemistry, biology and historical sciences

## Research Experience in Natural Sciences

- 09/2021 - 08/2023 Master Thesis with the ATLAS group at McGill University  
Analysis of the fake lepton background for  $H^\pm \rightarrow W^\pm \gamma$
- 06/2023 GRIDS Summer School at TRIUMF  
Workshops and lectures on detector and instrumentation technology
- 06/2021 - 07/2021 Research internship in geophysics with Utrecht University  
Research on earthquake wave propagation in different materials
- 09/2020 - 04/2021 Bachelor thesis with the LHCb group at Heidelberg University  
Calibration of the angular analysis of  $B^0 \rightarrow K^{*0} e^+ e^-$  with  $B^0 \rightarrow K^{*0} J/\psi (\rightarrow e^+ e^-)$
- 05/2019 - 07/2019 Research job at TRIUMF through McGill University  
Development of a laser frequency stabilisation setup for the collinear fast-beam laser spectroscopy experiment at TRIUMF
- 08/2017 - 08/2017 Research experience at the Max Planck Institute for Chemical Energy Conversion  
Investigation of reaction mechanisms catalysed by transition metal complexes using molecular spectroscopy and computational chemistry
- 07/2015 - 12/2016 Research at the Chair of Magnetofluidynamics, Measurement and Automation Technology, University of Dresden  
Experimental work on the rheological properties of various fluids; investigation of the chemical reaction forming colloidal Prussian blue

## Research and Work Experience in Historical Sciences

- 09/2021 - 08/2023    Communications Assistant at the Rutherford and McPherson Collections at McGill University  
Research on historical scientific instruments, creation of exhibitions and communications material, guide for visitors of the museum
- 10/2019 - 04/2020    Volunteer at Queen's University Archives  
Source analysis, compilation of subject summaries
- 08/2018 - 01/2019    Volunteer at the University Archives Heidelberg  
Registration of archive documents, research and source analysis

## Extra-Curricular Activities and Volunteering

- 03/2023                Organisation of a Wikipedia Editing Workshop with Arts+Feminism
- 08/2022                Participation in the Science Communication Conference for graduate students in Canada (ComSciConCan)
- 01/2022                Organisation of the annual Canadian Conference for Undergraduate Women in Physics (CCUWIP)
- 12/2015 - 03/2021    Organisation of Particle Physics Masterclasses for High-School Students  
Tutoring high school students in particle physics and data analysis

## Achievements

- 05/2020                RISE Scholarship by the German Academic Exchange Service (DAAD) for a research internship at Utrecht University in 2021
- 05/2019                Stipend from the MITACS Globalink Research Internship Program for a research job at TRIUMF through McGill University
- 05/2019                RISE Scholarship by the German Academic Exchange Service (DAAD) for a research internship at TRIUMF through McGill University
- 06/2017                Performance scholarship by the Deutsche Physikalische Gesellschaft (German Physical Society)
- 06/2017                Performance scholarship by the Gesellschaft Deutscher Chemiker (German Chemical Society)