Stephen Schroeder

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github.com/StephenSchroeder

EDUCATION

BSC HONOURS IN GEOLOGY | University of Calgary

Graduated April 2019 | Calgary, AB

Thesis Title: Carbon Storage Dynamics of Saline lakes in the Cariboo Plateau, British Columbia

- Analysed and interpreted statistical trends in data using Python, Excel, and Geochemists' Workbench
- Used versioning tools to update and ensure accuracy of the developed model
- Automated data filtering and cleaning to make my work efficient

EXPERIENCE

UNDERGRADUATE RESEARCHER | University of Calgary

January 2019 - Present | Calgary, AB

Thesis Title: Laboratory Constraints on the Kinetics of Pyrite Oxidation in Alkaline Waters

- Implemented experimental procedure and critically evaluated results
- Performed literature review and geochemical modelling of chemical behavior

PODCAST HOST | Endeavour Podcast with Stephen Schroeder

July 2018-Present | Calgary, AB

- Interviewed professionals of diverse scientific backgrounds and interests
- Communicated personal stories and science to the general public
- Developed and maintained podcast hosting and social media

RESEARCH ASSISTANT | Paleoenvironmental Dynamics Group

Summer 2017, Summer 2018 | Heidelberg, Germany

Supported research on Oligocene palaeoceanography and cryosphere modelling. Prepared, weighted, and diluted samples for ICP-OES analysis.

- Interpreted experimental data and its relevance to the appropriate model
- Identified specimens for chemical analysis
- Maintained microscope and chemical data using Excel

SKILLS

PROGRAMMING

Python: NumPy and Pandas data processing. Contributed to open-source packages on GitHub: PyJanitor, Econ-ARK, and Trio Writing well formatted and documented code, unit testing with PyTest

Wolfram Language: Created a script which accesses the RunKeeper database in order to visualise my running history

Excel: Projects involving INDEX, MATCH and IF functions

PROFESSIONAL

Science Communication • Resource Estimation • Geologic Mapping • Petrographic Microscopy • LaTeX

AWARDS

2019	Top Undergraduate Student	Faculty of Science IDEAS Award
2019	Top 3 in Department	Undergraduate Student Research Award
2018	Top 60/500	RISE-Globalink Research Internship

LANGUAGES

Intermediate

German • French