Wyatt Petryshen
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https://wyattsp.github.io/Wyatt-Petryshen/

Education

Master of Science Geology (University of Calgary),
2018 – 2021
- Evolutionary and computational biology, Conodont paleobiology

Bachelor of Science Honours in Geology (First Class, University of Calgary),
2014 – 2018
- GPA over last 2 academic years: 3.9

Publications, Talks, and Conferences

Petryshen W, Henderson CM, De Baets K, Jarochowska E. 2020. Evidence of parallel evolution in the dental elements of *Sweetongathus* conodonts. *Proc. R. Soc. B* 287: 20201922. http://dx.doi.org/10.1098/rspb.2020.1922.

Petryshen W, Henderson CM, De Baets K, Jarochowska E. 2020. Evidence of parallel evolution in the dental elements of *Sweetongathus* conodonts [Talk]. FAU GeoZentrum Nordbayern Seminar Series.

Petryshen W, Henderson CM, De Baets K, Jarochowska E. 2020. Recurrent morphotypes in the dental elements of *Sweetognathus* conodonts revealed by geometric morphometrics [Conference Paper]. GSA 2020 Connects Online.

Petryshen W, Henderson C. 2019. Preliminary work on the evolutionary history of *Sweetognathus* through morphometrics [Abstract]. Annual Meeting of the Paleontological Society (Paläontologische Gesellschaft) 2019.

Dolphin, G.R., Benoit, W., Burylo, J., Hurst, E., Petryshen, W., Wiebe, S. 2018. Braiding history, inquiry, and model-based learning: A collection of open-source historical case studies for teaching both geology content and the nature of science. Journal of Geoscience Education. doi: 10.1080/10899995.2018.1475821.

Petryshen W, Dutchak A. 2017. An investigation of sampling bias in the Swift Current Creek Mammalian Fauna of the Cypress Hills Formation, Saskatchewan, Canada. Canadian Paleontology Conference 2017. Poster Presentation.

Certifications

Introduction to Machine Learning Boot Camp, West Texas Data Science Institute, 2018
- Predicting reservoir properties based on available well data

Work Experience

Mining Coordinator, Wildsight, 2021 –
- Advocate for strong, enforceable mining legislation and regulations to protect our climate, aquatic life, and biodiversity

Research Assistant, University of Calgary, Department of Geoscience, 2021
- Research on conodont evolution and functional adaptions

Solutions Analyst / Data Scientist, PSGeoData, 2020 – 2021
- Data mining and predictive modeling in Python and R, data base management in SQL

Lab and Field Assistant, University of Calgary, Department of Geoscience, 2017
- Processing of microfossil samples

Research Assistant, University of Calgary, Department of Geoscience, 2015 – 2016
- Writing historical geologic case studies

Technical Skills

Proficient in R Studio, Adobe Creative Suite, Python (extensively work in scikit-Learn, Tensorflow, OpenCV, and pytesseract), and SQL. Completed workshops in RevBayes.

Teaching Experience

GLGY 343 3D Geologic Structures and Methods Winter 2019, 2021, Teaching Assistant
GLGY 493 Evolution of Earth Through Life and Time Fall 2018 - 2020, Teaching Assistant
GLGY 587 Invertebrate Paleobiology 2020, Teaching Assistant
GLGY 202 Applications in Geoscience Summer 2019, Teaching Assistant
GLGY 559 Contemporary Topics in Geology: Modern Carbonates Field School Spring 2019

Awards and Grants

University of Calgary Graduate Studies Scholarship 2020 ($5000)
Alberta Graduate Excellence Scholarship 2019 ($11,000)
GeoZentrum Nordbayern Friedrich-Alexander Universität Erlangen-Nürnberg, 2019 (3700€)
Grant Spratt Graduate Scholarship in Geology, 2019 ($1900)
Queen Elizabeth II Graduate (Master's) Scholarship, 2018 ($3600)
International Study Travel Grant, 2018 ($500)
Best Undergraduate Poster GeoREX, 2016 ($250)
Jason Lang Scholarship, Awarded, 2014 – 2016 ($1000 per year)
Alexander Rutherford Scholarships, 2014 ($1800)

Volunteer Experience

Graduate Association of Geology and Geophysics Students, 2019 – 2021
- President

Geoscience Research Exchange (GeoRex) Organization Committee, 2016 – 2020
- Fundraising, logistics, and corporate outreach

University of Calgary Orientation Week, 2016
- Interact and inform prospective students on information relating to geology

Parkinson Society of Alberta and MS Society of Canada 2014/2015