

Wyatt Petryshen

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Education

Master of Science Geology, University of Calgary	2018 – 2021
<ul style="list-style-type: none">• Evolutionary and computational biology, Conodont paleobiology	
Bachelor of Science Honours in Geology (First Class), University of Calgary	2014 – 2018
<ul style="list-style-type: none">• GPA over last 2 academic years: 3.9	

Peer Reviewed Publications

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

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.

Articles in Preparation

Petryshen W. 2023. Spatial distribution of potentially toxic elements associated with mountaintop coal mining in the Elk Valley, British Columbia, Canada. *In Preparation*.

Non-Refereed Publications and Opinion Pieces

Axworthy T, Petryshen W. 2022. The mining problem Canada wants to ignore. *The Globe and Mail*. <https://www.theglobeandmail.com/opinion/article-the-mining-problem-canada-wants-to-ignore/>

Petryshen W, 2022. Canada-U.S. transborder political dispute looms over water pollution crisis in British Columbia's Elk Valley. *The Hill Times*. <https://d1tfm8vclptjj.cloudfront.net/wp-content/uploads/2022/06/Wyatt-HT-op-ed-Jun27-2022.pdf>

Talks and Conference Presentations

Petryshen W, Henderson CM, De Baets K, Jarochovska E. 2022. Parallel Evolution in the Dental Elements of *Sweetognathus* Conodonts [Conference Presentation]. Fifth International Conodont Symposium.

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

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

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

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

Work Experience

Mining Policy and Impacts Researcher, Wildsight	2021 – Present
<ul style="list-style-type: none">• Advocate for strong, enforceable mining legislation and regulations to protect our climate, aquatic life, and biodiversity• Design and carry out environmental monitoring studies and remote sensing• Participate in public comment periods and engage with stakeholders	
Research Assistant, University of Calgary, Department of Geoscience	2021
<ul style="list-style-type: none">• Research on conodont evolution and functional adaptations	
Solutions Analyst / Data Scientist, PSGeoData	2020 – 2021
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Processing of microfossil samples	
Research Assistant, University of Calgary, Department of Geoscience	2015 – 2016
<ul style="list-style-type: none">• Writing historical geologic case studies	

Certifications

Introduction to Machine Learning Boot Camp, West Texas Data Science Institute	2018
<ul style="list-style-type: none">• Predicting reservoir properties based on available well data	

Technical Skills

Proficient in R Studio, Adobe Creative Suite, Python, and SQL. Completed workshops in RevBayes.

Teaching Experience (University of Calgary)

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

Awards and Grants

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

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