

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. 2023. Spatial distribution of selenium and other potentially toxic elements surrounding mountaintop coal mines in the Elk Valley, British Columbia, Canada. *Heliyon*. 9(7): e17242. <https://doi.org/10.1016/j.heliyon.2023.e17242>.

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.

Non-Refereed Publications and Opinion Pieces

Petryshen W. 2023. New energy era, new rules needed to develop responsible projects. *The Hill Times*. <https://www.hilltimes.com/story/2023/03/30/new-energy-era-new-rules-needed-to-develop-responsible-projects/382683/>

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, Jarochowska 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

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| 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

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| 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)

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| 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