

CURRICULUM VITAE

Brenen Michael Wynd

4044 Derring Hall, Virginia Tech
926 West Campus Drive
Blacksburg, VA 24061
bmwynd@vt.edu
(509)-842-4501

EDUCATION:

2017 March: Accepted into the Interfaces of Global Change IGEP, Virginia Polytechnic and State University, Blacksburg, VA.

2017 February: Accepted as a PhD student in Geosciences, Virginia Polytechnic Institute and State University, Blacksburg, VA.

2016 June: GRE General Exam; total score: 303; Verbal Reasoning: 154 (64th percentile); Quantitative Reasoning: 159 (73rd percentile); Analytical Writing: 5.5 (98th percentile).

2013 – 2015: B.S. Biochemistry with Departmental Honors (GPA 3.63), University of Washington, Seattle, WA.

2014 – 2015: B.S. General Biology with Departmental Honors (GPA 3.63), University of Washington, Seattle, WA.

2007 – 2011: Graduated Cheney High School with Honors, Cheney, WA.

EXPERIENCE:

Publications

Wynd, B. M., B. R. Peacock, M. R. Whitney, and C. A. Sidor. 2017. The first Occurrence of *Cynognathus crateronotus* (Cynodontia, Cynognathia) in Tanzania, with Biostratigraphic Implications for the Age of Triassic Strata in Southern Pangea; pp. xxx–xxx in C. A. Sidor and S. J. Nesbitt (eds.), Vertebrate and climatic evolution in the Triassic rift basins of Tanzania and Zambia. Society of Vertebrate Paleontology Memoir 17. Journal of Vertebrate Paleontology 37 (6, supplement). In review.

Wynd, B. M., C. J. Watson, K. Patil, G. E. Sanders and R. Y. Kwon. 2017. A Dynamic Anesthesia System for Long-Term Imaging in the Adult Zebrafish Skeleton. Zebrafish 14:1-17.

Presentations

2017 May: SVP; abstract accepted for Talk on “Diversity of chondrichthyans through the uppermost Cretaceous (Maastrichtian) Hell Creek Formation of Garfield County, Montana, with implications for the Cretaceous-Paleogene Mass Extinction.

2017 January: University of California Berkeley, Fossil Coffee, Berkeley, California. Informal talk on “The First Occurrence of *Cynognathus* in Tanzania and Zambia, with Biostratigraphic Implications for the Age of Triassic Strata in Southern Pangea.”

2016 Fall: SVP; poster presentation on “First Occurrence of *Cynognathus* in Tanzania and Zambia, with Biostratigraphic Implications for the Age of Triassic Strata in Southern Pangea.” Colbert Prize session participant.

2015 Fall: ASBMR; poster presentation on “A Dynamic Anesthesia for Long-Term Imaging in the Adult Zebrafish Skeleton.”

2015 Fall: Fishbone; talk on “A Dynamic Anesthesia System for Long-Term Imaging in the Adult Zebrafish Skeleton.”

2015 Spring: Undergraduate Research Symposium; poster presentation on “A Dynamic Anesthesia System for Long-Term Imaging in the Adult Zebrafish Skeleton.”

Research

2017 February – Present: Volunteer Research Associate, Dr. Gregory Wilson (UW Biology dept). Duties include conducting independent research projects in coordination with Dr. Gregory Wilson and associated post-doctoral fellows.

2015 March – Present: Volunteer Research Associate, Dr. Christian Sidor (UW Biology dept). Duties include conducting independent research projects in coordination with Dr. Christian Sidor and associated graduate students.

2013 September – 2016 April: Undergraduate Research Associate, Dr. Ronald Kwon (UW Orthopedics dept). Duties include anesthetizing and performing in-vivo [fluorescent] imaging on adult Zebrafish in an attempt to extend maximum duration of anesthesia. Also involved in fish maintenance and care, as well as performing minor surgeries and microinjection of chemicals (Botulinum toxin B).

Teaching

2017: January – Present: University of Washington, Seattle, WA. Peer teaching assistant for Dr. Karen Petersen’s course Comparative Anatomy of Vertebrates. Duties include working directly with students to answer questions and facilitate learning, preparing specimens for teaching through dissection, writing potential test questions and instructing students through peer demonstrations.

Public Outreach

- 2017 March – Summit School visit, Spokane Valley, WA. Presented to elementary school students about paleontology and the collection and study of fossil materials.
- 2017 March – Cheney High School visit, Cheney, WA. Visited my high school and gave a talk about paleontology and how to use an education from Cheney High School to develop a career in sciences.
- 2017 March – Dino Weekend event at the Burke Museum of Natural History and Culture, Seattle, WA. Organized the attendance for Wilson lab undergraduate volunteers, developed their sorting/Montana fossil station, spoke about the discovery of the Burke Museum baby *Triceratops*, and spoke about the discovery and plans for the “Tufts-Love *Tyrannosaurus rex*.”
- 2017 February: Behind the Scenes Night, Burke Museum of Natural and Culture History Seattle, WA. Organized a sorting activity for patrons and spoke about the collection history of the “Tufts-Love *Tyrannosaurus rex*.”
- 2016 November: Meet the Mammals, Burke Museum of Natural History Seattle, WA. Educating the public on how we collect Mesozoic mammals and what that means for modern mammal understandings.
- 2016 September: Chocolate Fair, Burke Museum of Natural History Seattle, WA. Educated incoming freshmen about how we collected the Tuft’s-Love *Tyrannosaurus rex* skull as well as informing students about the paleobiology minor at the University of Washington.
- 2016 July – August: DIG Field School Instructor at the Hell Creek State Park, MT. Duties included educating K-12 Teachers on how to prospect for/collect vertebrate fossils from the latest Cretaceous/earliest Paleocene of MT.
- 2016 March: Dino Day, Burke Museum of Natural History Seattle, WA. Educated the public on various Mesozoic fossils. Primarily talking about feeding strategies of *Triceratops*.
- 2016 February: Burke Museum Behind the Scenes Night Seattle, WA. Volunteered in the paleontology department of the Burke Museum of Natural History educating the public about fossils and field work expeditions.
- 2015 July – August: DIG Field School Instructor at the Hell Creek State Park, MT. Duties included educating K-12 teachers on how to prospect for/collect vertebrate fossils from the latest Cretaceous/earliest Paleocene of MT.

Work

- 2017 January – Present: Intern with the Montana Bureau of Land Management, supervised by Dr. Gregory Wilson in Seattle, WA. Responsibilities include overseeing the appropriate curation of fossil specimens collected from the Hell Creek/Tullock formations in eastern Montana. 30 hours/week.

2016 October – December: Undergraduate Manager for Dr. Wilson, University of Washington, Seattle, WA. Duties include interviewing and training new undergraduate researchers, coordinating undergraduate schedules, curating fossils from the Hell Creek/Tulloch of Montana and acting as an identification resource. 15 hours/week.

2016 September – December: Laboratory Technician for Dr. Sidor, University of Washington, Seattle, WA. Duties include generating and segmenting Computer Tomography (CT) scans using Avizo software, curation of Tanzanian and Zambian fossils, and other miscellaneous projects pertaining to the Tanz/Zam project. 10 hours/week.

2016 January – June: Intern for Dr. Gregory Wilson through the Montana BLM, Seattle, WA. Duties included cataloguing and curating specimens, identifying collected specimens, and training and coordinating with the undergraduate volunteers. 20 hours/week.

2014 June – August: Undergraduate Research Intern at Harborview Medical Center, Seattle, WA. Conducted research on zebrafish for a summer attempting to lengthen maximum anesthetic duration during in-vivo imaging. 20 hours/week

Volunteer

2016 September: UWBM PEFO fieldwork, Petrified Forest National Park, AZ. Duties included prospecting and quarrying for micro and mesovertebrates and macrocollection of numerous large specimens.

2016 Summer: Hell Creek Project III at the Hell Creek State Park, MT. Duties included prospecting for new potential study localities, working with students from the UW Biol 475 course in collecting surface and quarried specimens, and assisting in the recovery of a relatively complete *Tyrannosaurus rex* skull.

2015 September – Present: University of Washington Burke Museum of Natural History and Culture, Seattle, WA. Responsibilities include using necessary tools to prepare fossils for research/display purposes and assisting the Curators/Collections managers with organizing the vertebrate paleontology collections.

2015 August: Hell Creek Project III at the Hell Creek State Park, MT. Duties included assisting current members of the Hell Creek Project in recovering large dinosaur fossils now stored at the University of Washington, Burke Museum.

2013 March – July: Escort services and ICU at University of Washington Medical Center, Seattle, WA. Responsibilities included transporting patients throughout the facility, cleaning and restocking carts, assisting nurses in various tasks, and working the front desk.

Elected/Appointed Positions

2015: Secretary of the University of Washington Kendo Club.

AWARDS:

June 2015: Departmental Honors Recipient General Biology and Biochemistry at the University of Washington, Seattle.

Spring 2012 – Spring 2015: Deans List Recipient at the University of Washington, Seattle.

2nd Place as a representative of the UW Kendo Club in a Pacific Northwest Kendo Federation Taikai, Kent, WA for the 0-3 Kyu division.

SKILLS:

General

- Structuring and conducting research projects
- General organization
- Word, excel, powerpoint, photoshop and illustrator proficiency with 71 wpm
- Problem Solving

Biology

- Microslide preparation
- Surgical procedures on small fish
- Compound microscope use
- Solution preparation
- Culture preparation

Vertebrate Paleontology

- Photo Masking
- Cladistics
- Mesquite
- TNT
- Quarrying
- Prospecting
- Fossil Identification
- Fossil Preparation
- Fossil Curation
- Macro-collection
- Avizo CT segmenting