PAIGE K. WILSON

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EDUCATION

Ph.D. Candidate Earth and Space Sciences (Sep 2016 - Present) *University of Washington (UW), Seattle WA*
Current PhD candidate advised by Drs. Greg Wilson Mantilla and Caroline A.E. Strömberg
Research interests in paleoecology, sedimentology, and paleoclimate
Passed preliminary exam in Fall 2017; Passed general exam in Fall 2019
Awarded Coombs Teaching Excellence (2019) and Johnston Research Excellence (2020) Fellowships

B.A. Earth Sciences and Biological Sciences (Sep 2010 - Jun 2014) *Dartmouth College, Hanover NH*
High Honors in Earth Sciences

RESEARCH SUMMARY

2016 – Present Graduate Research; University of Washington
Investigation into the Cretaceous-Paleogene (K-Pg) mass extinction event; analysis of macrofloral assemblages, microflora, and sedimentology to understand the role of environment and record of ecosystem change through time. Collection and classification of macrofloral taxa. Interpretation of paleoecology and paleoenvironment using digital leaf physiognomy and leaf mass per area methods. Additional projects analyzing palm (Arecaceae) phytoliths for application in paleoecology and describing geology in the Hell Creek and Fort Union Formations.

2013 – 2014 Senior Honors Thesis; Dept. of Earth Sciences, Dartmouth College
Preparation, description, and phylogenetic interpretation of a novel species (Family Nodosauridae) from the Wayan Fm of Idaho. I prepared, investigated, and ultimately classified this specimen as a novel species, which I proposed naming *Sauropelta idahoensis*.

2011 – 2013 Undergraduate Research and Field Work; Dept. of Earth Sciences, Dartmouth College
Collected >800 vertebrate microfossils from Badlands National Park. Assisted in the collection of over 2500 microfossils from Badlands National Park (SD) to investigate taphonomic signature of depositional environments and changes in vertebrate communities across the Eocene-Oligocene boundary. Prepared rock samples for chemical analysis and sorted microfossils. Assisted in fieldwork at the Egg Mountain site near Chouteau, MT along with a crew of researchers from Montana State University and Dartmouth College.

PUBLICATIONS AND ABSTRACTS

Manuscripts

2021 Weaver, Lucas N, Thomas S Tobin, Jordan R Claytor, **Paige K Wilson**, William A Clemens, Gregory P Wilson Mantilla. [Manuscript submitted for publication] "Revised Stratigraphic Relationships Within the Lower Fort Union Formation (Tullock Member; Garfield County, Montana, U.S.A.) Provide a New Framework for Examining Post K-Pg Mammalian Recovery Dynamics." *PALAIOS.*

Wilson, Paige K, Gregory P Wilson Mantilla, and Caroline AE Strömberg. "Seafood Salad: A Diverse latest Cretaceous Florule from eastern Montana." *Cretaceous Research.*

2016 **Wilson, Paige K** and Jason R Moore "Assessing the Control of Preservational Environment on Taphonomic and Ecological Patterns in an Oligocene Mammal Fauna from Badlands National Park, South Dakota." *PloS One 11(6)*.

2014 **Wilson, PK** [Unpublished manuscript] "Preparation, identification, description, and interpretation of a new dinosaur specimen from the Cretaceous Wayan Formation of Idaho, U.S.A." Dept. of Earth Sciences Undergraduate Senior Honors Thesis, *Dartmouth College* (June 2014).

Published Abstracts

2020 *__Wilson, PK__, Strömberg, CAE, and Wilson Mantilla, GP. "Plant Community Change Across the Cretaceous-Paleogene Boundary in Northeastern Montana" *GSA 2020 Connects Online* (Oct 2020).

Wilson, PK, Strömberg, CAE, and Wilson Mantilla, GP. "Plant Community Change in the latest Cretaceous of northeastern Montana" *Midcontinental Paleobotanical Colloquium Online* (May 2020).

Lavin, S, Armos, B, Khem, S, Hart, D, Brightly, W, Crifò, C, Lowe, A, Novello, A, Stiles, E, **Wilson, P**, Gallaher, TJ, and Strömberg, CAE. "Enhancing the Utility of Phytoliths for Understanding the Evolution and Paleoecology of the Arecaceae" *Midcontinental Paleobotanical Colloquium Online* (May 2020).

2019 *__Wilson, PK__, Wilson GP, and Strömberg, CAE. "Seafood Salad: A Diverse Florule from the Late Cretaceous-age Hell Creek Formation of Montana" Oral Presentation *North American Paleontological Conference in Riverside, CA* (Jun 2019).

***Wilson, PK**, Wilson GP, and Strömberg, CAE. "Seafood Salad: A Diverse Florule from the Late Cretaceous-age Hell Creek Formation of Montana" Oral Presentation *ESS Departmental Gala in Seattle, WA* (Apr 2019).

Armos, B, Lavin, S, Akbar, S, Brightly, W, Crifò, C, Gallaher, T, Lowe, A, Novello, A, **Wilson, P**, Strömberg, C. "The utility of palm phytoliths for inferring the evolution and paleoecology of Arecaceae" *Botany 2019 in Tucson, AZ* (July 2019).

2018 *__Wilson, PK.__ "Plant Macrofossils from the Hell Creek of Montana: Evidence of the K-Pg Mass Extinction" Oral Presentation *ESS Departmental Gala in Seattle, WA* (Mar 2018).

2017 **Wilson, PK**, Wilson, GP, and Strömberg, CAE. "Vegetation and Environment Change Across the K-Pg Boundary in the Hell Creek of Montana" Poster session *GSA Annual Conference in Seattle, WA* (Nov 2017).

Wilson, PK. "Environmental Change and Plant Response Across the Cretaceous-Paleogene Boundary in North America: A Study in the Hell Creek Area of NE Montana" Poster session *ESS Departmental Gala in Seattle, WA* (Mar 2017).

2014 **Wilson, PK.** "Preparation, Identification, description, and interpretation of a new dinosaur specimen from the Cretaceous Wayan Formation of Idaho, U.S.A." Poster session *Dartmouth College Wetterhahn Science Symposium* (May 2014).

2012 **Wilson, PK** and Moore, JR. "Quantitative analysis of the taphonomic and ecological patterns recorded by vertebrate assemblages from the Oligocene Poleslide Member of the Brule Formation, Badlands National Park, South Dakota" Poster session *Society of Vert. Paleontology Annual Conference in Raleigh, NC* (Oct 2012).

Wilson, Paige K and Moore, JR. "Broken Bones in the Badlands: Examining Preservational Biasing in Fossil Assemblages form Badlands National Park, SD" Poster session *Dartmouth College Wetterhahn Science Symposium* (May 2012).

*Oral Presentation

INVITED TALKS

Jan 2020 Utah Museum of Natural History DinoFest
"Ferns, Sycamores, and Palm Trees: which plants survived the K-Pg mass extinction?"
Aug 2018 Garfield County Museum Invited Speaker
Jun 2018 Seattle PS Science Fair Invited Speaker
Nov 2017 DIG Field School & Northwest Paleontological Association

HONORS AND AWARDS

2020 AWG Winifred Goldring Award, Honorable Mention
David A. Johnston Fellowship, Awarded for Research Excellence (UW ESS)
Robert G. and Nadine E. Bassett Endowed Fund (UW ESS)
2019 Howard A. Coombs Teaching Excellence Award (UW ESS)
Celebrate UW Women Award
2018 Combined Dr. Jody Bourgeois Fellowship in Sedimentary Geology, Dr. Howard A. Coombs Scholarship Fund, and Marie Ferrell Endowment Fund (UW ESS)
2017 Adam Campbell Award, Earth and Space Sciences UW
2014 Upham Geology Award, Dartmouth College Earth Sciences
2014 Gazzaniga Family Science Award, Dartmouth College
2014 Second Honor Group, Dartmouth College

GRANTS

2019	Paleo Society & The Bearded Lady: Currano Scholarship Research Grant	$1200
	GSA Student Research Grant	$1250
	Evolving Earth Foundation Research Grant	$2922
2017	Quaternary Research Center Research Grant, UW	$4155
	American Philosophical Society- Lewis And Clark Fellowship Research Grant	$3600
	Dr. Jody Bourgeois Endowed Fellowship in Sedimentary Geology (UW ESS)	$2250
	Colorado Scientific Society Research Grant	$900
2013	John Lindsley Fund Research Grant (Dartmouth College)	$3000
2011	John Lindsley Fund Research Grant (Dartmouth College)	$2400

FIELD EXPERIENCE

2017-19 *Hell Creek Area, Montana — 18 weeks cumulatively
Paleobotany prospecting and collections, stratigraphic logging, sediment collection for plant microfossils, vertebrate collection (micro and macro), overseeing large (10+ person) team of volunteers, students, and other researchers
2014 Egg Mountain, Montana—1 week
Assisted in collection of dinosaur nesting site
2014 *Wayan Fm, Idaho—1 week
Stratigraphic logging and sediment collection at previous dinosaur excavation
2012 Dartmouth Geology field camp, various locations in western North America—10 weeks
Comprehensive field methods class including mapping, hydrology, glaciology, and other field techniques
2011 *Palmer Creek Unit, Badlands National Park, South Dakota—1 week

Led the c*ollection of over 700 vertebrate microfossils at two sites*

2011 Badlands National Park, South Dakota—7 weeks
Assisted in prospecting and collecting over 3,000 vertebrate micro and macro fossils from various sites, assisted in stratigraphic logging

**Denotes field work where I was leading the project*

TEACHING AND CURRICULUM DEVELOPMENT

Teaching Assistant

ESS 210, University of Washington: Physical Geology
*ESS 211, University of Washington: Physical Processes of the Earth
*ESS 212, University of Washington: Earth Materials
*ESS 213, University of Washington: Evolution of the Earth
ESS 313, University of Washington: Geobiology
BIOL 200, University of Washington: Introductory Biology, Cellular Biology
EARS 101, Dartmouth College: Introduction to Earth Sciences

**Denotes courses where I developed novel lab exercises for all or part of the course*

Programming

DIG Field School, Burke Museum (2020) -- *Developed and modified new lesson plans for K-12 teachers as part of the DIG Field School program*
Girls In Science, Burke Museum (2019) – *Designed lesson content for a six week after school program for high school girls*

Guest Lecturer

BIOL 475, University of Washington: Paleobiology Field Methods and Research (2018 and 2019)--*Led two days of field methods course in Montana, instructing on paleobotany field techniques*
GY320, Colorado College: Surface Processes and Geomorphology (2020)--*"Cretaceous-Paleogene (K-Pg) Mass Extinction: Plants v. Meteor"* guest lecture

Training

UW CoENV Online Teaching Conference (2020)
UW TA/RA Conference (2016)

MENTORING AND OUTREACH

2019 Instructor, Girls In Science High School Program, Burke Museum UW--*designed and led a six week after school program for HS girls on botany*

2019 Graduate Assistant, DIG Field School, Burke Museum UW--a*dvertised, reviewed, and made decisions on applications from K-12 teachers; designed new lesson content; managed program logistics (social media, teacher interactions, and planning for summer field program)*

2017 – 2019 Coordinator, Rockin' Out, Earth and Space Sciences UW--o*rganized in-class visits, campus field trips, and science nights for K-12 students; solicited volunteers and school contacts to set up events, and designed lessons.*

2017 – 2018 Assistant Instructor, Girls In Science High School Program, Burke Museum UW--*assisted in facilitating a six week after school program for HS girls on paleobotany*

2017 – Present Instructor, DIG Field School, Burke Museum UW--*4-day field camp each July for K-12 teachers on geology and paleontology methods, lesson plan development, etc; led teachers in the field to teach them about geological and paleobotanical methods.*

2016 – 2017 Assistant Instructor, Girls In Science Middle School Program, Burke Museum UW--*assisted in facilitating a weekend program for MS girls on paleobotany*

2016 – Present Volunteer, Rockin' Out, Earth and Space Sciences UW--*visit local K-12 schools to teach lessons on earth science topics*

2016 – Present Volunteer, Burke Museum various public outreach events, UW--*Regularly volunteer at events through the Burke Museum speaking with adults and families to share information about fossils, research, and museum collections*

2016 – Present Mentor, Hell Creek Project, UW--*As part of my dissertation work I have directly mentored five undergraduate students and four volunteers in cataloging and processing leaf macrofossil specimens, prep work (e.g. scribing and gluing) of fossil specimens, and analytical techniques in paleobiology. I also work co-mentoring the more than 30 undergraduate students in Greg Wilson and Caroline Strömberg's labs.*

PROFESSIONAL ORGANIZATIONS AND MEMBERSHIPS

2020 – Present Association for Women Geoscientists
2017 – Present Northwest Paleontological Association
2017 – Present Paleontological Society
2014 – Present Geological Society of America

SERVICE

2021	Midcontinent Paleobotanical Colloquium Organizing Committee
2020	Association for Women Geoscientists PNW Student Chapter, Founder
	Midcontinent Paleobotanical Colloquium Organizing Committee
2020 – 2021	College of the Environment Student Academic Grievance Committee
2020	College of the Environment Student Advisory Council
2018 – 2019	ESS Gala (Departmental Conference) Committee, UW Earth and Space Sciences Dept.
2017 – 2019	Rockin' Out Program Coordinator, UW Earth and Space Sciences Dept.
2017 – 2018	First Year Student Feedback Coordinator, UW Earth and Space Sciences Dept.
2016 – 2017	UW Graduate and Professional Student Senate, Earth and Space Sciences Dept. Representative

PROFESSIONAL EXPERIENCE

Jan 2016 – Sep 2016 The Arnold Group, Research Analyst in Seattle, WA

Provided quantitative and qualitative support for a team of consultants on a variety of projects in the tech industry. Responsibilities included client relationship building, data analysis, and presentation of hypothesis-driven findings. Worked on four projects with teams at Microsoft Corporation including product research, new team creation, and corporate reorganization impacting over 15K employees.

Oct 2014 – Dec 2015 Epic Systems Corp, Technical Recruiter in Madison, WI

Managed the application, interview, and hiring process at a healthcare software company which employs nearly 8,000 workers. Personally hired over 200 software developers and technical services analysts.

OTHER SKILLS

Programming and software experience: Proficient in Microsoft Office Suite, R Statistical software, Matlab, Arcmap, ERDAS Imagine, JMP, TNT, Mesquite, BLAST, PAUP*, MacClade, Xojo, Gene Inspector, Gene Construction Kit, Matlab, Past, and photo processing programs (among others)

Field work and wet lab experience: paleontological prospecting, excavation, and prep work; microscopy, benchwork (e.g. phytolith processing); sedimentological logging, collection, and measurement

Set up a new phytolith and pollen processing lab at the Burke Museum (2020), created and maintained various lab websites, ran lab social media (i.e., Twitter), and assisted in creating exhibit and website content for the Burke Museum Paleobotany Division

First Aid and CPR certified (2020)