

Gabriella (Gabi) Rossetto

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CURRICULUM VITAE

EDUCATION

Expected 2019 **M.S.**, Geosciences, the Pennsylvania State University, State College, PA

2011-2015 **B.A.**, Geology, minor in Anthropology, the Colorado College, Colorado Springs, CO
Thesis: Hydrogen isotope ratios of volcanic glass and the topography of the Central Rocky Mountain/western Great Plains region during the late Paleogene

PROFESSIONAL EXPERIENCE

June 2016 – August 2017 **Paleobotany Collections Assistant**, Denver Museum of Nature & Science, Denver, CO. Supervisor: Dr. Ian Miller, Curator of Paleobotany

- Managed the paleobotany volunteer team including supervising, training, and coordinating volunteer positions for the Earth Sciences department
- Responsible for planning, movement, inventory, and stratigraphic organization of fossil leaf and wood collection into the new collections facility
- Accountable for all aspects of curation for the paleobotany collection, involving creating and mapping localities, completing accession paperwork and reports for collecting on federal and state lands, managing incoming/outgoing loans, updating KE EMu database, preparing fossil leaves in the lab, and ensuring proper storage practices
- Integrated pollen database into KE EMu, curated pollen collection, and analyzed pollen slides
- Participated in year-round fieldwork in the Denver Basin, Williston Basin, San Juan Basin, and Kaiparowits Plateau while supporting frontcountry and backcountry camps of volunteers

May 2015 - May 2016 **Paleobotany Collections Intern**, Denver Museum of Nature & Science, Denver, CO. Supervisors: Dr. Ian Miller, Curator of Paleobotany, & Dr. Tyler Lyson, Curator of Vertebrate Paleontology

- Performed palynological analysis of Denver Basin fossil pollen to locate the K-Pg extinction event and characterize paleoenvironmental change
- Helped with conducting weekly paleobotanical fossil preparation sessions for volunteers (Leaf Whackers), fossil leaf inventory and curation, and the start of the movement of paleobotany collection to new facility
- Fieldwork in the Hell Creek Formation in North Dakota and Montana prospecting for and excavating vertebrate specimens, collecting and censusing leaf quarries, and mapping a geologic contact with differential GPS
- Compiled the largest terrestrial Cretaceous-Paleogene boundary dataset into a single geodatabase using Excel and ArcGIS; implemented a geostatistical model of the K-Pg extinction to put it in stratigraphic context for application to paleoecological study
- Created figures and maps for curator's use in field work, publications, permit reports, and grant proposals
- Completed a geologic and paleontologic resources report for a donor's ranch in CO

- Oct. 2015 **Paleontology Field Intern**, Denver Museum of Nature and Science
Supervisors: Mike Getty, Chief Preparator & Dr. Joe Sertich, Curator of Dinosaurs
- 5-week position in the Kaiparowits Formation in Grand Staircase-Escalante National Monument, southern Utah
 - Guided volunteers during vertebrate fossil excavation, prospected for new fossil sites independently, and aided with stratigraphic mapping
 - Facilitated logistics of running three successful helicopter supported backcountry camps by accommodating staff and volunteers

- August 2014 - May 2015 **Geology Department Student Assistant**, Colorado College, Colorado Springs, CO. Supervisor: Mandy Sulfrian, Department Secretary
- Assisted with administrative duties within the Geology department, including scanning and typing of course and field materials and past theses for professors
 - Initiated inventory and photography of the CC Paleontology Collection and made recommendations for conservation of the collection to the College President

- Summer 2014 **Paleontology/ Museum Assistant** (NPS/GSA Mosaics in Science Program)
Florissant Fossil Beds National Monument, Divide, CO. Supervisor: Dr. Herb Meyer, Chief Paleontologist
- Completed annual inventory and monitoring of 50 federal fossil sites
 - Updated inventory and monitoring protocol and created a field manual
 - Curation and databasing of paleobotany collection and preparation of fossil leaves in paper shale matrix
 - Collected GPS data for Florissant Fossil Beds geologic trails map

- Summer 2011 **Intern** (City of Los Angeles' Board of Public Works High School Internship Program)
CDM (now CDMSmith), Los Angeles, CA. Supervisor: Eric Smith, Principal Engineer
- Supported gravel research for Owen's Lake dust mitigation project using aerial photography and selecting gravel materials
 - Created fact sheets for past CDM projects, edited engineering specifications and merged files, and consolidated meeting minutes
 - Created databases of water treatment plants in Excel

FUNDING RECIEVED

- 2017 Bunton-Waller Fellowship, for one semester of research assistantship support, Penn State
2014 Patricia Buster Research Scholarship, for 2 weeks of research, \$1200 research expense support and \$800 personal stipend, Department of Geology, Colorado College

PRESENTATIONS AND ABSTRACTS

- September 2016 *Using GIS To Map, Interpolate, And Visualize the Terrestrial Cretaceous/Paleogene Extinction Event in the Williston Basin's Cedar Creek Anticline, Timing, Drivers, and Marine and Terrestrial Ecosystem Responses to the Cretaceous-Paleogene Extinction Event, Geological Society of America Annual Meeting, Denver, CO*
- December 2015 *Late Paleogene topography of the Central Rocky Mountains and western Great Plains region using hydrogen isotope ratios in volcanic glass, Water Isotope Systematics: Improving Modern and Paleoclimate Interpretations Poster Session, American Geophysical Union Fall Meeting, San Francisco, CA*
- November 2015 *Using GIS to Refine Understanding of Dinosaur Extinction, City and County of Denver GIS Day, Denver, CO*
- August 2014 *Inventory and Monitoring at Florissant Fossil Beds National Monument, Mosaics in Science Career Workshop, Department of the Interior, Washington D.C.*

SPECIAL SKILLS

- Extremely proficient in Microsoft Office (Word, Excel, PowerPoint, Outlook, & Access), ArcGIS (Spatial, 3D, & Geostatistical Analyst), Adobe Illustrator & Photoshop, KE Emu Collections Management Database
- Optical microscopy experience including stacking of photomicrographs in CombineZP
- Geochemistry laboratory and sample prep experience with rock crushing, wet sieving, HCl & HF sample preparation, and LMT density separations
- Class II Powered Industrial Truck (stand-up forklift) certified; skilled with operating pallet jacks
- Extensive fieldwork experience in CO, CA, UT, NM, TX, WY, MT, & ND
- Excellent writing and communication skills
- Fluent in English and Spanish
- Involved in mentoring and supervising participants in DMNS Teen Science Scholars program in the field
- Developed and implemented a Spanish curriculum for a Colorado Springs elementary afterschool program (Enseña) as community outreach while at The Colorado College