

SALVADOR BASTIEN

Denver Museum of Nature & Science • 2001 Colorado Blvd. Denver, CO 80205
salvador.bastien@dmns.org • (715) 808-3057

EDUCATION & CERTIFICATIONS

Colorado College, Colorado Springs, *2016*

Bachelor of Arts: Distinction in Biology: Organisms, Ecology, and Evolution

NOLS Wilderness Medical Association, *2024*

Wilderness First Responder, recertified in two-year intervals

PROFESSIONAL EXPERIENCE

Denver Museum of Nature & Science: Earth Sciences Preparator *2018-Present*

- Prepare macro and micro fossils from throughout the geologic record
- Manage up to 100 volunteers, to 20 undergraduate interns, and several high school interns annually, as well as three term staff
- Conduct and facilitate fieldwork across the American west (see field experience)
- Coordinate workflow of several simultaneous projects through the lab
- Lead tours and facilitate public science communication events

Paleo Solutions: Paleontology Field Technician *2018*

Denver Museum of Nature & Science: Paleontology Fieldwork & Preparation Intern *2016-2018*

Sevilleta Long Term Ecological Research Station: Undergraduate Researcher *2015*

PALEONTOLOGICAL FIELD EXPERIENCE

Cambrian

Tonto Group, Grand Canyon, AZ *2023*

Jurassic

Morrison Fm. Kaycee, WY *2019*

Cretaceous

Kaiparowits, Wahweap Fm. Grand Staircase- Escalante National Monument, UT *2016-2021*

Fruitland, Kirtland Fm. San Juan Basin, NM *2017,2018, 2022*

Hell Creek Fm. Marmarth, ND *2019, 2022,2023*

Aguja Fm. Terlingua, TX *2019*

Denver Fm. urban dinosaurs, Denver Basin, CO *2017, 2019*

Paleocene

Denver Fm. K/Pg recovery, Denver Basin, CO *2020-2021*

Fort Union Fm., Marmarth, ND *2019*

TECHNICAL SKILLS

Specimen Preparation

Experienced using and maintaining these preparation tools/ chemicals

- HW, Microjack, and Chicago Pneumatics air scribes
- Stereoscopic microscopes up to 40x magnification
- Comco, Swamblaster microabrasive units
- Paraloid B-72, Polyvinyl Acetate, Butvar B-76 consolidants
- 2-part epoxies, taxidermy putty, Cyanoacrylate adhesives

Additional Skills

- Archival cradle construction using polyester felt, fiberglass, and plaster
- Mold complex fossils with Tin and Platinum molding Silicones
- Cast in pigmented polyester and polyurethane resins

Logistical Skills

- Manage corps of ~100 volunteers
- Observe safety regulations within lab operations and maintain a safe working environment
- Teach specialized preparation courses to new volunteer cohorts
- Facilitate volunteer driven preparation on multiple simultaneous projects
- Document preparation for taphonomic study and forecasting
- Manage equipment and consumable purchases

Fieldwork

- Excavate and collect fossil localities in appropriate packaging, from paper wrapping to appropriately sized plaster jackets
- Operate and maintain jackhammers and rock saws in addition to non-mechanized tools
- Navigate remote and rugged terrain to identify and record new fossil localities
- Detailed quarry mapping of over ~100 sq. M. field sites across multiple years
- Managing camp logistics with teams of ~30 people
- Training interns and volunteers in field techniques
- Working with helicopters to establish remote camps and extract oversized fossils
- Identifying, screening, and collecting micro vertebrate rich matrix

PUBLICATIONS/ PRESENTATIONS

T. Lyson, H. Petermann, N. Toth, **S. Bastien**, I. Miller, 2021 “A new baenid turtle, *Palatobaena knellerorum* sp. nov., from the earliest Paleocene (Danian) Denver Formation of south-central Colorado, USA”

J. Hopkins, M.G. Price, N. Toth, **S. Bastien**, H. Petermann, B. Schumacher (2023, October 18-21) RE-PREPARATION AND PRESERVATION REVEALS NEW INSIGHTS INTO A UNIQUE SAUROPOD BONEBED (MORRISON FM, COMANCHE NATIONAL GRASSLAND, COLORADO) [Poster Session]. Society of Vertebrate Paleontology, Cincinnati, OH, United States.

S. Bastien, N. Toth, 2021 “Streamlining Archival Cradle Construction” [Talk] Association for Materials and Methods in Paleontology, Hays, KS, United States.

PROFESSIONAL MEMBERSHIPS

Society of Vertebrate Paleontology

Association for Materials & Methods in Paleontology