Bennett Slibeck bbs2133@columbia.edu

ORCiD, Google Scholar Personal Website

Curriculum Vitae

EDUCATION

Expected 2026 – Columbia University – PhD Candidate in Earth Science
Advisor: Paul Olsen
2024 – Columbia University – MPhil in Earth Science
2023 – Columbia University – MA in Earth Science
2021 – Columbia University – BA in Earth Science

PUBLICATIONS

Olsen, P., MacLennan, S., Sha, J., Kinney, S., Chang, C., Fang, Y., Liu, J., **Slibeck, B.**, Chen, E. and Schoene, B., 2025. Reply to Emery-Wetherell: Taphonomy of Lujiatun 3D dinosaurs is inconsistent with death and burial by lahars. *Proceedings of the National Academy of Sciences*, *122*(3), p.e2423567122.

Olsen, P., Fang, Y., Chang, C., Sues, H.-D., **Slibeck, B.,** Fu, Q., & Yu, C., 2024, Late Triassic-Early Jurassic continental vertebrates and their environmental context from the Junggar Basin, Xinjiang, NW China, for Sha, J., Vajda, V., Olsen, P. E., Zhang, H., & Slater, S. (eds.), The Late Triassic and Jurassic of the Junggar Basin, China - Advances in Paleontology. and Environments, Special Publications, *Geological Society of London.*

Olsen, P., Kinney, S., & **Slibeck, B.,** 2024, Colorado Plateau Filed Trip for the ICDP Science Advisory Committee, Winslow, AZ, Guidebook

Maclennan, S., Sha, J., Olsen, P., Kinney, S., Chang, C., Chen, E., **Slibeck, B.,** Fang, Y., Lui, J. & Schoene, B., 2024, Extremely rapid, yet non-catastrophic, preservation of the flattened-feathered and 3D dinosaurs of the Early Cretaceous of China. *Proceedings of the National Academy of Sciences.*

Moussallam, Y., Lee, H., Ding, S., DeLessio, M., Everard, J., Spittle, E., Lu, G., Baur, J., Glazer, E., Peccia, A., Zaman, M., Alper, N., & **Slibeck, B.,** 2023, Temperature of the Villarrica lava lake from 1963 to 2015 constrained by phase-equilibrium. *Journal of Petrology*.

In Review:

Olsen, P. E., Et-Touhami, M, Whiteside, J. H., and **Slibeck, B.**, 2024, *Cynodontipus* is an amniote burrow, not a hairy synapsid track. *Journal of Vertebrate Paleontology*, in revision.

Slibeck, B., & Olsen, P., 2026, *An Early Jurassic Lost and Found – Tracks and Traces from the Vreeland Quarry (NJ, USA).* For *Journal of Paleontology* special ECR issue. In Review.

Slibeck, B., 2026, Designing for Awe in Geoscience Education. *Journal of Geoscience Education*. In Review.

In Preparation:

Slibeck, B., Olsen, P., and Luo, Z.X., 2025, A new Ameghinichnus trackway supports the Triassic origin of the crown group Mammals. For *Nature Geoscience*. in prep.

Slibeck, B., Olsen, P., and Kent, D., 2025, The First Dinosaur Dominated Communities of the Newark Basin. For P^3. In prep.

STUDENTS SUPERVISED

Brian Ngyuyen, Rutgers University, Independent Study, 2025
Angela Douglass, Wellesley College, LDEO REU Program, 2022
Chase Bebo, Navajo Technical University, LDEO REU Program, 2022, 2023

GRANTS AND FELLOWSHIPS – Total Funding Awarded: $205,700

2025 – GSAS Teaching Scholars Program: "EESC 3501 Mass Extinctions: Death and Rebirth in the Fossil Record" ($18,000)
2024 – Exodus Explorers Without Boundaries Grant: "Indigenous Ichnology – Tracking Connections Between Dinosaur Footprints and Indigenous Petroglyphs" ($4,000)
2024 – Columbia Center for Teaching and Learning Lead Teaching Fellow ($2,000)
2024 – Columbia Provost's Diversity Fellowship Small Grants Recipient ($1,700)
2023 – Columbia Center for Teaching and Learning CIRTL Fellow ($2,000)
2023 – CLEANN: Collaboration to Lower Exposure to Arsenic and Uranium on the Navajo Nation ($44,000)
2023-2026 – NSF Graduate Research Fellowship Recipient ($114,000)
2023 – Ford Foundation Predoctoral Fellowship Honorable Mention
2021 – High-performance morphometric computing facility for paleoclimate study at Lamont ($10,000)
2021 – Columbia Provost's Diversity Fellowship Recipient ($10,000)

PROFESSIONAL AND ACADEMIC HONORS

2025 – Explorer's Club: Explorer in Residence
2022 – Paleontological Society Future Leaders in Paleontology Invited Speaker
2021 – Columbia University Multicultural Graduation Cord Awardee
2020 – Paleontological Society Future Leaders in Paleontology Invited Speaker
2019 – Paleontological Society Student Ambassador

TEACHING AND MENTORING EXPERIENCE AND TRAINING

2025 – Instructor of Record – Columbia Teaching Scholar's Program, EESC 3501: Mass Extinctions – Death and Rebirth in the Fossil Record
2025 – Columbia University Teaching Development Program – Advanced Track
2024 – CIRTL Network: "An Introduction to Evidence-Based Undergraduate STEM Teaching"
2023 – Graduate Student Mentor – LDEO Summer Internships
2023 – Teaching Assistant – Earth's Environmental Systems: The Life System
2022 – Mentorship Program Coordinator – LDEO Summer Internships
2022, 2021, 2020 – Teaching Assistant – Dinosaurs and the History of Life
2021 – Teaching Assistant – Earth's Environmental Systems: The Solid Earth System

SERVICE

2025-2026 – Columbia University Science of Learning Research Initiative Graduate Assistant
2025 – LDEO Committee for the Advancement of Research and Community Success
2024-2025 – Departmental Graduate Student Council, Academic Co-Chair
2023-2025 – LDEO Diversity, Equity, Inclusion, and Accessibility Steering Committee

MEDIA APPEARANCES AND OUTREACH

Visiting Scientist – The School at Columbia University: Integrated Projects Week – 03/13/2025
The Explorer's Club Annual Dinner 2025 – Grantee Presentation: "Indigenous Ichnology"
@Paleontologizing on Twitch – Broadcasting from St. George Dinosaur Discovery Site at Johnson Farm – 03/21/2025
Columbia CTL Student Spotlight – 06/13/2024
LDEO Campus News: Communicating Awe: How Three Young Scientists Reach New Audiences – 10/24/2023
LDEO Open House Panel: Communicating Science in a Distracted World; Hosted by Miles O'Brien – 10/14/2023

FIELD EXPERIENCE

Fossil Prospecting, Photogrammetry, Field Geology and Paleontology: Colorado Plateau (UT, AZ, NM), Newark Basin (NJ, PA), Deerfield Basin (MA), Hartford Basin (CT), Culpepper Basin (VA), Washakie Basin (WY, CO)

PRESENTATIONS, POSTERS AND ABSTRACTS - *denotes student supervised

2025

Slibeck, B., & Olsen P., "A synoptic view of life and death in the Newark Basin – new perspectives from the ETE and beyond" – SVP – Poster
Olsen, P., **Slibeck, B.,** & MacDonald, N., "Keeping grounded: podathecae, feature scales, and feathers-tracks, simple minded cladistic thinking, and the insulated ancestral state condition in the avemetatarsalia" – SVP – Poster
*Nguyen, B., **Slibeck, B.,** Tibbits, D., Chang, C., & Kinney, S., "Incorporation of High-Resolution Whole Core CT Scanning with Continuous XRF Scanning Towards Broad Applications in the Colorado Plateau Coring Project" – NE GSA – Oral Presentation

2024

Slibeck, B., "Towards an Intuitive Geoscience: Teaching for a Creative Planet" – AGU – Poster
Slibeck, B., & Olsen, P., "A new species of *Ameghinichnus* from the Newark Basin: ichnocladistics and palaeobiological implications" – SVP – Poster
Olsen, P., McLean, N., Blackburn, T., Kinney, S., Tibbits, D., Chang, C., Schaller, M., **Slibeck, B.,** Whiteside, J., Kent, D., Ramezani, J., & Et-Touhami, M., "Obliquity—not precession—dominated orbital pacing through the continental Triassic-Jurassic transition in the tropics, requiring recalibration of the CA-ID-TIMS-based age of the end-Triassic mass extinction (ETE)" - AGU – Oral Presentation
Olsen, P., Kinney, S., Tibbits, D., Fang, Y., Chang, C., Schaller, M., **Slibeck, B.,** & Whiteside, J., "a Transient" 40 Kyr" World during the Triassic-Jurassic Transition Based on a New X-Ray Fluorescence (xrf) Elemental Astrochronology" – GSA – Oral Presentation

2023

Slibeck, B., Milner, A., Olsen, P., "Early Dinosaur-Dominated Communities from High-Relief, Shallow, Lake Margin Environments in Low-Latitudes (Late Triassic – Early Jurassic, New Jersey And Utah, USA) – SVP – Oral Presentation

Olsen, P., Kligman, B., Villari, J., **Slibeck, B.,** Hughes, K., Pritchard, A. "Latest Triassic and Early Jurassic Continental Vertebrate Assemblages Of The Culpeper Rift Basin (Virginia, USA) In High-Resolution Temporal And Environmental Perspectives" – SVP – Oral Presentation

Baird, C.N., **Slibeck, B.,** "Fast, Cheap, or Good – Pick Two: Trade Offs in 3D Modeling Techniques for Paleontological Specimens" – SVP – Poster

*Bebo, C., Tibbits, D., Danyi, C., Prabhakar, L., **Slibeck, B.,** Olsen, P., Chang, C., Pinnella, M., Witkowski, R., RoyChowdhury, A., Kinney, S. "Mapping the Distribution Of Geogenic Contaminates in Bedrock from Colorado Plateau Cores Using Continuous X-Ray Fluorescence Spectroscopy" – RM GSA – Poster

Slibeck, B., Olsen, P. "Deciphering Theropod-Dominated Communities in Latest Triassic Ichnofossil Assemblages (Newark Basin, NJ)" – SE/NE GSA – Poster

Olsen P., Sues, H.-D., **Slibeck, B.** "The Dinosaur that Came in From the Cold: The Oldest Definitive Ornithischian Dinosaurs and Origin of their Abrupt Appearance" – SE/NE GSA – Oral Presentation

2022

Slibeck, B., Chang, C., Rowan, C., and Olsen, P. "Sauropod Tracks or Mud Bubble Fountains? —High Resolution Photogrammetry Provides Insights into Formation of Enigmatic Sedimentary Structures" – AGU – Poster

Olsen, P., Chang, C., **Slibeck, B.,** Tibbits, D., and Kinney, S. "Orbitally-paced Dust/Loess Modulates Accumulation Rates in Late Triassic Lacustrine Strata of the Central Pangean Newark Rift Basin, Eastern North America" – AGU – Poster

*Douglass, A., Olsen, P., Chang, C., Kinney, S., and **Slibeck, B.** "Scenes from the Sapropels: Revealing Orbital Forcings and Climate in the Mediterranean over the last 500 kyr with Image and XRF Analysis" – AGU – Poster

Kinney, S., Chang, C., Tibbits, D., *Bebo, C., Cannato, J., Danyi, C., Galletta, A., Lee, B., McCracken, R., Pinnella, M., **Slibeck, B.,** Prabhakar, L., Stempkovski, I., Witkowski, R., Browning, J., Miller, K., RoyChowdhury, A., and Olsen, P. "Development of High-Resolution Paleoclimate Dataset from Whole Rock Geochemistry of Two Continuously Cored Mesozoic Continental Sequences" – AGU – Poster

Olsen, P., Stüeken, E., Kinney, S., Schaller, M., Whiteside, J., **Slibeck, B.,** and Chang, C. "Evidence of Volcanic Sulfate Aerosols from Two Early Jurassic Eruptions of the Central Atlantic Magmatic Province (CAMP, Eastern North America) – AGU – Poster

Slibeck, B. "Post-Extinction, Tetrapod Ichnoecology of the Latest Triassic (Newark Basin, NJ, USA): Dawn of the Jurassic World" – Future Leaders in Paleontology Special Session – GSA Connects – Oral Presentation

Olsen, P., Sha, J., Fang, Y., Chang, C., Whiteside, J., Kinney, S., Sues, H.D., Kent, D., Schaller, M., Vajda, V., **Slibeck, B.,** and Lampert, A. "Unique Paleoarctic Vertebrate Assemblages from Late Triassic and Early Jurassic Lacustrine Strata of the Junggar Basin (NW China)" – GSA Connects – Poster

*Douglass, A., Olsen, P., Kinney, S., Chang, C., and **Slibeck, B.** "Using Image Analysis and Xrf to Constrain Orbital Forcing and Climate in the Mediterranean Basin Over the Last 500,000 Years" – GSA Connects – Poster

*Bebo, C., Tibbits, D., Kinney, S., **Slibeck, B.,** Chang, C., Roychowdury, A., and Olsen, P. "How are Geogenic Contaminants Affecting Ground Water on the Colorado Plateau" – GSA Connects – Poster

Olsen, P., Whiteside, J., Kent, D., Chang, C., Kinney, S., and **Slibeck, B.** "Early Dinosaur Adaptations to Cold Explains Their Triassic High-Latitude Bias and Global Expansion Through the End-Triassic Mass Extinction" – GSA Connects – Oral Presentation

Slibeck, B., and Olsen, P. "A New Rhynchosauroides from the Uppermost Passaic Formation of the Newark Basin and its Paleoecological Significance" – SVP Annual meeting – Poster

Olsen, P., Kent, D., Reichgelt, T., Kinney, S., Chang, C., and **Slibeck, B.** "Mapping the Gettysburg Triassic-Jurassic Rift Basin (Pennsylvania, USA): Implications of Preliminary Observations on Stratigraphy, Facies, and Cyclicity to Tectonic Development of Eastern North American Rifts" – Northeast GSA – Abstract

2021

Slibeck, B., and Law, C. "What drives range size variation: Effects of morphology on range size in the Musteloidea" – SICB annual meeting – Virtual Presentation

2020

Slibeck, B., and Law, C. "What Drives Range Size Variation?" – Future Leaders in Paleontology Virtual Presentation Session – GSA Connects – Virtual Presentation