



Katherine Marriott

LECTURER IN EARTH SCIENCES - RESEARCHER IN PALEONTOLOGY

katelomedicomarriott@gmail.com
845 206 9308



(she/ her/ hers) First woman in the world to publish papers on all six taxonomic orders of ammonoids. Instructor in Earth and environmental sciences with over two years of experience, committed to dismantling the ways that all inequities operate in academia. Committed to providing early peer-reviewed research opportunities to high school and undergraduate students pursuing paleontology. Database administrator and editor promoting open science. Researcher in paleontology and climate, book author and illustrator.

Education

- 2023-2024** (pending) **American Museum of Natural History Richard Gilder Graduate School**
Master of Arts in Teaching, Earth Science Education
- 2019-2021** **Brooklyn College, City University of New York**
Master of Science, Earth and Environmental Sciences
- 2013-2017** **State University of New York at New Paltz**
Bachelor of Arts in Visual Arts with a Minor in Geology
- 2009-2012** **SUNY Purchase College School of Art+Design**
Sculpture and 3D Media (*Transferred*)
- 2008-2009** **SUNY Dutchess Community College**
High School Bridge Program (Liberal Arts)

Current Roles and Responsibilities

- 2023-present** **Research Foundation of the City University of New York/Brooklyn College STEM Academy**
Principal Investigator and Research Mentor, Paleontology Research Group
- 2023-present** **Research Foundation of the City University of New York/Brooklyn College STEM Academy**
Instructor, Urban Aquatic Ecology pre-college class
- 2022-present** **Brooklyn College Academy**
Adjunct Professor, *EESC 1080 Climate Change, Past and Present*
- 2021-present** **Adjunct Lecturer**
CUNY Brooklyn College Department of Earth and Environmental Sciences

Past Experience

- Spring 2023** **The Paleontological Society**
Social Media Intern





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2016-2017 **SUNY New Paltz Geology Department**
Teaching Assistant (TA), *GLG305, Invertebrate Paleontology Laboratory*

2018-2019 **Astro Gallery of Gems**
Paleontology Specialist

Books (as Author and Illustrator)

1. **Marriott, K.**, Prothero, D.R., and Bartholomew, A. (2023), *Evolution of the Ammonoids*. CRC Press/Taylor & Francis Group, Boca Raton. [link]
2. **Marriott, K.**, and Baidal, M., in: Cerviño, C., Baidal, M., and Correia, F., eds., (2022), *Manual de Ilustración Científica*. geoPlaneta | Planetade Libros, Barcelona. [link]

Books (Illustrations only)

3. Prothero, D.R., with illustrations by Marriott, K., (2023.), *The Story of Climate in 25 Discoveries*. Columbia University Press, New York.
4. Prothero, D.R., with illustrations by Marriott, K., (contracted.), *California's Amazing Geology*. (2nd Edition). CRC Press /Taylor and Francis Publishing Group, Boca Raton.

Accepted and Published Papers

* included student research mentors °increased research accessibility

18. *Watmore, K.I., Prothero, D.R., and **Marriott, K.**, Systematics of the Late Eocene "Oreonetine" oreodonts (Merycoidodontidae: Artiodactyla). *Journal of Systematic Palaeontology*.
17. ***Marriott, K.**, Olson, S., Balassa, D., Cleaveland, C., Watmore, K.I., LaVine, R.J., Olson, R., and Prothero, D.R., 2022, Ontogenetic Trends of Sutural Complexity in Jurassic Ammonites. *Geosciences*, v. 12, no 2. [link]
16. *Olson, S., White, R.S., Prothero, D.R., Balassa, D., **Marriott, K.**, and Syverson, V.J.P, 2022, Ontogenetic Growth in the Pleistocene Pronghorn Stockoceros from San Josecito Cave, Mexico, *in: Lucas et al., 2022, eds., Fossil Record 8. New Mexico Museum of Natural History and Science Bulletin 90.*
15. *Balassa, D., Prothero, D.R., Cleaveland, C., and **Marriott, K.**, 2022, How did white-tailed deer respond to the Pleistocene-Holocene Transition?, *in: Lucas et al., 2022, eds., Fossil Record 8. New Mexico Museum of Natural History and Science Bulletin 90.*
14. *Balassa, D., **Marriott, K.**, S. Olson, DeAnda, E.E., Syverson, V.J.P., and Prothero, D.R. 2022, Did Pronghorns Become Smaller After the Ice Ages?, *in: Lucas et al., 2022, eds., Fossil Record 8. New Mexico Museum of Natural History and Science Bulletin 90.*
13. **Marriott, K.**, 2022, Lateral data normalizations for partial goniatic and ceratitic sutures, *in: Lucas et al., 2022, eds., Fossil Record 8. New Mexico Museum of Natural History and Science Bulletin 90.* [link]





12. **Marriott, K.**, 2022, Morphometric consistency of unconverted data from Lateral Lobes in ammonoid sutures, *in: Lucas et al., 2022, eds., Fossil Record 8. New Mexico Museum of Natural History and Science Bulletin 90.* [[link](#)]
11. *Olson, S., White, R.S, Prothero, D.R., Balassa, D., **Marriott, K.**, and Syverson, V.J.P., 2022, Allometric growth in the Pleistocene pronghorn *Stockoceros* from San Josecito Cave, Mexico, *in: Lucas et al., 2022, eds., Fossil Record 8. New Mexico Museum of Natural History and Science Bulletin 90.*
10. *De Anda, E.E., Prothero, D.R., and **Marriott, K.L.**, 2022, Evolutionary response to climate change of the extinct Grinnell's Eagle (*Spitzaetus grinelli*) from La Brea tar pits, *in: Lucas et al., 2022, eds., Fossil Record 8. New Mexico Museum of Natural History and Science Bulletin 90.*
9. *Santos, S., Prothero, D.R., and **Marriott, K.**, 2022, How does climate effect bird evolution? Morphological response of the extinct Chicken Hawk (*Buteogallus fragilis*) from La Brea tar pits, *in: Lucas et al., 2022, eds., Fossil Record 8. New Mexico Museum of Natural History and Science Bulletin 90.*
8. ***Marriott, K.L.**, Prothero, D.R., and Watmore, K.I., 2022, Evolutionary stasis in La Brea harriers (*Circus cyaneus*) over the last glacial-interglacial cycle, *in: Lucas et al., 2022, eds., Fossil Record 8. New Mexico Museum of Natural History and Science Bulletin 90.*
7. **Marriott, K.**, and Prothero, D.R., 2022, Systematics of the nothokemadine camels. (Mammalia: Artiodactyla: Camelidae), *in: Lucas et al., 2022, eds., Fossil Record 8. New Mexico Museum of Natural History and Science Bulletin 90.* [[link](#)]
6. **Marriott, K.**, 2022,Reconstructing ammonoid soft parts: Western-Interior Seaway *Didymoceras*. *in: Slattery, J.S., Larson, N.L., Bingle-Davis, M., and Bingle-Davis, M. (eds.), Insights into the Cretaceous: Building on the Legacy of William A. Cobban (1916-2015), American Association of Petroleum Geologists and Wyoming Geological Association Special Volume.*
5. **Marriott, K.**, Prothero, D.R., 2022, Variability of the horns of pronghorns (Mammalia: Artiodactyla: Antilocapridae): Implications for pronghorn systematics, *in: Lucas et al., 2022, eds., Fossil Record 8. New Mexico Museum of Natural History and Science Bulletin 90.* [[link](#)]
4. **Marriott, K.**, 2021, Correlative tomography of an exceptionally preserved Jurassic ammonite implies hyponome-propelled swimming: tie points and viscous fingering models for ammonite septal formation: COMMENT, v. 50, no. 4, *Geology.* [[link](#)]
3. **Marriott, K.**, 2021, Francis Lee's *Ammonite*: The Biopic Anning Deserved? Misrepresentation of Marginalized Women in Geology. *Fossil News: The Journal of Avocational Paleontology*, v. 24, no. 1, 26-27.
2. Prothero, D.R., Domning, D., Foss, S., Holbrook, L., Lucas, S., **Marriott, K.**, Naish, D., Padian, K., Rössner, G., Spaulding, M., Theodor, J., and Uhen, M., 2021, On the unnecessary and misleading taxon 'Cetartiodactyla.' *Journal of Mammalian Evolution.* [[link](#)]
1. ***Marriott, K.**, and Chamberlain, J.A., 2021, Uses for incomplete ammonite sutures: lateral lobe and second saddle as markers of sutural complexity. *Geosciences* v. 11, no. 11, 476. [[link](#)]





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Papers in Review or Revision

1. ***Marriott, K.**, 2023, Accessibility in ammonites: announcing a new morphological database to increase accessibility for ammonoid workers. *Priscum*, v. 47.
2. ***Marriott, K.**, Watmore, K.I., and Prothero, D.R., The last *Didymoceras*: Diaspora from the Western Interior Seaway. *Historical Biology*.
3. **Marriott, K.**, A new hypothesis regarding septal formation and the rear mantle structure in ammonoids.
4. *Tran, M., **Marriott, K.**, Zhang, E., and Guo, W., 2023, Vertical Exaggeration When Using Unconverted LLS Data in Ontogenetic Sequences of Ammonite Sutures. *Fossil Record 9: Bulletin of the Museum of Natural History of New Mexico*.

Monograph (as Author)

1. Stevens, M.S., Prothero, D.R., Welsh, E., Balassa, D., Htun, T., **Marriott, K.L.**, and Olson, S., Systematics of the Miocene Oreodonts (Artiodactyla: Merycoidodontidae)." (in review) *Bulletin of the New Mexico Museum of Natural History*. (in review.)

Monograph (Illustrations Only)

1. Prothero, D.R., (2021). The Systematics of North American Peccaries: Mammalia: Artiodactyla: Tayassuidae. *Bulletin of the New Mexico Museum of Natural History*.

Talks *as presenter*

1. Marriott, K., et al. (2023). Quantitative Resolution to "Paperclip" Ammonite Systematics: Implications for Cretaceous Heteromorph Macroevolution. Progressive Palaeontology, Palaeontological Association, Liverpool.
2. *Marriott, K., (2023). Womaning in Paleontology: Not for the Faint of Heart. Agate Fossil Beds National Monument International Women and Girls in Science Day.
3. *Marriott, K., (2022). Paleontology and Conservation: Making Extinction Science Relevant Today. Brooklyn College Department of Earth and Environmental Sciences Colloquium.
4. *Marriott, K., (2022). CUNY Science-Art Collaborations.





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5. *Marriott, K., (2021). Doing Justice to the Incredible Biodiversity of Ammonites: Mathematical and Visual Perspectives. Pal(a)eoPERCS. [\[link\]](#)
6. *Marriott, K., and Chamberlain, J.A., (2021). Extrapolating Ammonite Hemisuture Analysis from Partial (Lateral) Suture Components. Progressive Palaeontology, Palaeontological Association 2021 at University College London.
7. Olson, S., White, R.S., Prothero, D.R., Balassa, D., Marriott, K., and Syverson, V.J.P, (2021). Ontogenetic Growth in the Pleistocene Pronghorn Stockoceros from San Josecito Cave, Mexico. Society of Vertebrate Paleontology Annual Meeting.
8. *Marriott, K. (2020). Sedimentological and Morphological Basis for Probable Life Appearance of Nostoceratid Heteromorph Ammonoids. Progressive Palaeontology 2020, Palaeontological Association at University of Leeds, Yorkshire Museum.

Conference posters **as presenter*

1. *Marriott, K., and Chamberlain, J.A., (2021). Extrapolating Incomplete Ammonite Sutures in the Fractal Step Method. Geological Society of America Annual Meeting, Portland, Oregon.
2. Olson, S., White, R.S., Prothero, D.R., Balassa, D., Marriott, K., and Syverson, V.J.P, (2021). Ontogenetic Growth in the Pleistocene Pronghorn *Stockoceros* from San Josecito Cave, Mexico. Geological Society of America Annual Meeting, Portland, Oregon.
3. Balassa, D., Prothero, D.R., Olson, S., and Marriott, K. (2021). Did Pronghorns Become Smaller After the Ice Ages? Geological Society of America Annual Meeting, Portland, Oregon.
4. *Marriott, K. (2020). A New Approach to the Step Method for Fractal Ontogenies. Palaeontological Association 2020 Annual Meeting.
5. *Marriott, K. (2020). Applying Morphological Evidence from Exceptionally- Preserved Heteromorph Ammonoids to Reconstruct Life Appearance and Biodiversity. GSA Connects 2020.
6. Nolte, K., Bylott, C., Marriott, K., Bartholomew, A., Mass, S., and Haselton, A. (2014). Assessing 3D Technology for Morphometric Research. SUNY New Paltz Student Research Symposium.

Conferences Attended

Student Research Symposium, SUNY New Paltz, New Paltz, NY	2014
Northeast Geological Society of America, Albany, NY	2016
Central New York Earth Science Student Symposium, Syracuse University, NY	2017
Geological Society of America Annual Meeting, GSA Connects	2020
Progressive Palaeontology, University of Leeds, UK	2020
Palaeontological Association Annual Meeting, Oxford University, UK	2020
Progressive Palaeontology, University College London	2021
Geological Society of America National Meeting, Portland, OR	2021
Palaeontological Association Annual Meeting	2021





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Animal Sentience: Online Conference
Geological Society of America Annual Meeting, Denver, CO

2021
2022

Open Science and Accessibility Projects

2022-present MolluscaTope: Open Seashell Isotope Data
2022-present Ammodata: Open Ammonoid Morphology Database [\[link\]](#)
Making invertebrate paleontological research accessible
Founder, Database Administrator

Research Mentoring Experience

(Master's Student) 2021-2022
(Master's Student) 2021-2022
(Master's Student) 2021-2022
(Undergraduate Student/Master's Student) 2022-
(Undergraduate Student) 2023-
(High School Student) 2023-
(High School Student) 2023-
(High School Student) 2023-

Honors, Awards, and Scholarships

Ocean Artists Society [\[link\]](#) Inducted 2020
Illustraciencia: The International Award on Scientific Illustration [\[link\]](#) Finalist 2018
CUNY Geology Training Scholarship for outstanding achievements 2021
Geological Society of America COVID-19 Relief for Students 2020
CUNY Geology Training Scholarship for outstanding achievements 2020
CUNY Cares Act Scholarship 2020

Service to the Profession

Founder and Co-Chair, Society of Invertebrate Paleoartists 2021
SUNY New Paltz Geology Department Logo 2020
Paleontological Research Institution Katherine Palmer Award Nomination 2019
SUNY New Paltz Geology Club Fundraising 2016-2020
Volunteer, Cave House Museum of Mining and Geology 2016-2017

Student Report Interviews

Undergraduate Geology Student, University of Alberta 2019
Undergraduate Biology Student, Goucher College 2020
Undergraduate Illustration Student, Pratt Institute 2021

School Assemblies

Skype a Scientist 2022-





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Avenues New York: Fifth Grade	2021
Midwood High School: Ninth Grade	2021
Midwood High School: Eleventh Grade	2021

Television and Video Media

Spanish National Television <i>The Adventure of Knowledge</i>	2019
Paleoart featured in Danna Staaf's Talk at Google	2018
American Public Television <i>Mission of Mermaids: A Love Letter to the Ocean</i>	2012

Paleoart: Permanent Collections

SUNY New Paltz Science Hall	2017
Cave House Museum of Mining and Geology, Howe Caverns, NY	2016

Paleoart: Temporary Exhibits

Solo Exhibition: CUNY LaGuardia Community College	2019
Astro Gallery of Gems, Fifth Avenue Showroom	2019
SUNY New Paltz Science Hall	2017
SUNY New Paltz Science Hall	2016

Professional Societies

The Paleontological Society, Bethesda, MD
 Palaeontological Association, UK
 New York Paleontological Society, New York, NY
 The Beatrix Potter Society, York, UK
 Association for Women Geoscientists, Westminster, CO
 New York Entomological Society, New York, NY
 Geological Society of America, Boulder, CO
 Guild of Natural Science Illustrators, Bronx, NY
 Society of Invertebrate Paleontologists

Continuing Education

Pedagogy in Practice: Brooklyn College Center for Teaching and Learning
 Museum Object-based learning: SmithsonianX

