

**Katherine Marriott**  
**PALEONTOLOGIST - GRADUATE RESEARCHER - ADJUNCT LECTURER**

[katelomedicomarriott@gmail.com](mailto:katelomedicomarriott@gmail.com)    [katelomedicomarriott.com](http://katelomedicomarriott.com)



Adjunct lecturer in Earth and Environmental Sciences, experienced instructing NYC students with diverse needs and committed to dismantling the ways that racism, classism, trauma and ableism operate in academia. Researcher in both invertebrate paleontology and paleomammalogy. 40+ papers in Devonian-Paleocene ammonoids, Miocene-Holocene artiodactyls and birds, and recent arthropods. Lead author of book *Evolution of the Ammonoids* (CRC Press/Taylor & Francis Group). Interests include ammonoid suture complexity over ontogeny, functional morphology, isotope geochemistry, extinction recovery.

### Education

2019-2021	Brooklyn College, City University of New York Master of Science, Earth and Environmental Sciences <i>Thesis accepted with no revisions.</i>
2013-2017	State University of New York at New Paltz Bachelor of Arts in Visual Arts with a Minor in Geology
2009-2012	Purchase College, State University of New York School of Art+Design - Sculpture and 3D Media <i>Transferred.</i>

### Teaching Experience

2021-present	Adjunct Lecturer CUNY Brooklyn College Department of Earth and Environmental Sciences
2016-2017	Tutor/Exam Prep, Invertebrate Paleontology SUNY New Paltz Geology Department
2016	Teaching Assistant (TA), Invertebrate Paleontology Lab SUNY New Paltz Geology Department

### Books

Marriott, K., Prothero, D.R., and Bartholomew, A., (2022), *Evolution of the Ammonoids*. CRC Press /Taylor and Francis Publishing Group. *In press currently.*

Marriott, K., and LaVine, R.J., (in prep.) *Evolution of the Arachnomorphs*.

### Publications

1. Marriott, K., 2022, Reconstructing ammonoid soft parts: Western-Interior Seaway *Didymoceras*. *A Tribute to U.S. Geological Survey Geologist and Paleontologist W.A. Cobban (1916-2015):*

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*American Association of Petroleum Geologists Bulletin.*

2. 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.
3. 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.  
<https://doi.org/10.3390/geosciences11110476>
4. 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*.  
<https://doi.org/10.1007/s10914-021-09572-7>
5. Marriott, K., Prothero, D.R., 2022, Variability of the horns of pronghorns (Mammalia: Artiodactyla: Antilocapridae): Implications for pronghorn systematics. *Bulletin of the New Mexico Museum of Natural History*.
6. 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*. <https://doi.org/10.1130/G49930C.1>
7. 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. <https://doi.org/10.3390/geosciences12020066>
8. 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. *Bulletin of the New Mexico Museum of Natural History*.
9. Balassa, D., Prothero, D.R., Cleaveland, C., and Marriott, K., 2022, How did white-tailed deer respond to the Pleistocene-Holocene Transition? *Bulletin of the New Mexico Museum of Natural History*.
10. 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? *Bulletin of the New Mexico Museum of Natural History*.
11. Marriott, K., 2022, Lateral data normalizations for partial goniatitic and ceratitic sutures. *Bulletin of the New Mexico Museum of Natural History*.

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12. Marriott, K., 2022, Morphometric consistency of unconverted data from Lateral Lobes in ammonoid sutures. *Bulletin of the New Mexico Museum of Natural History*.
13. 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. *Bulletin of the New Mexico Museum of Natural History*.
14. De Anda, E.E., Prothero, D.R., and Marriott, K.L., 2022, Evolutionary response to climate change of the extinct Grinnell's Eagle (*Spizaetus grinelli*) from La Brea tar pits. *Bulletin of the New Mexico Museum of Natural History*.
15. Santos, S., Prothero, D.R., and K.L. Marriott. 2022, How does climate effect bird evolution? Morphological response of the extinct Chicken Hawk (*Buteogallus fragilis*) from La Brea tar pits. *Bulletin of the New Mexico Museum of Natural History*.
16. 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. *Bulletin of the New Mexico Museum of Natural History*.
17. Marriott, K., and Prothero, D.R., 2022, Systematics of nothokemadid camels. (Mammalia: Artiodactyla: Camelidae). *Bulletin of the New Mexico Museum of Natural History*.

### **Papers in Review and Preparation**

[Please email me for my full CV, which includes papers 18-61.](#)

### **Monograph illustrations only**

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., (2021). [Doing Justice to the Incredible Biodiversity of Ammonites: Mathematical and Visual Perspectives](#). Pal(a)eoPERCS.

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2. \*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.
3. 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.
4. \*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  
Northeast Geological Society of America, Albany, NY

2014  
2016

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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
Animal Sentience: Online Conference	2021

### Honors and Awards

[The Ocean Artists Society](#) Inducted 2020  
WYLAND Worldwide, Irvine, California

[Ilustraciencia: The International Award on Scientific Illustration](#) Finalist 2018  
Spanish National Museum of Natural Sciences  
Catalan Association for Science Communication

### Scholarships

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

### Research Group Experience

Comparative and Behavioral Psychology of <i>Pandinus</i> Scorpions	2022-
The Frick Mammal Collection, American Museum of Natural History	2021-
Prothero Research Group	2020-
Chester Lab, Brooklyn College Department of Anthropology	2020
Chamberlain Lab, Brooklyn College Department of EES	2019-2021
Bartholomew Lab, SUNY New Paltz Geology Department	2014-2017
Anthropology Lab, American Museum of Natural History	2017

### Publisher History

CRC Press/Taylor & Francis Group, AAPG Bulletin, MDPI *Geosciences*, Springer *Journal*

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*of Mammalian Evolution, Bulletin of the Museum of Natural History of New Mexico,*  
*Fossil News: the Journal of Avocational Paleontology, Geology*

**Service to the Profession**

Affiliate Faculty, Brooklyn College Women's Leadership Mentor Symposium	2021-
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
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**

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

**Television and Video Media**

Astrohomey Instagram TV: Astronomer Interviews Paleontologist	2021
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
<i>Maid of Water</i>	2010

**Paleoart: Permanent Collections**

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

**Paleoart: Temporary Exhibits**

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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** *\*denotes current/active membership*

- \*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 Paleoartists