

## Curriculum Vitae: WESLEY G. PARKER

Mailing address: Wesley G. Parker, 239 Glenmary Avenue, Cincinnati, OH 45220

Email: [Parkerwg@mail.uc.edu](mailto:Parkerwg@mail.uc.edu); Phone: 740-972-1686

### (a) Educational Background

Ohio University	Athens, OH	Global Studies – Latin America	B.A.	2011-2015
Ohio University	Athens, OH	Geological Sciences	B.A.	2011-2015
University of Cincinnati	Cincinnati, OH	Geology	Ph.D.	2015-Present

### (b) Professional Development

2018-Present	Teaching Assistant at Department of Geology, University of Cincinnati OH Courses: GEOL 1009: <i>Natural Hazards</i> (Fall 2018) GEOL 1019: <i>Tropical Islands: Endangered Paradises</i> (Spring 2019) GEOL 1004: <i>Historical Geology</i> (Spring 2019)
Summer 2018	Glenn T. Seaborg Institute Internship in Nuclear Forensics at Lawrence Livermore National Laboratory, Livermore CA
2015-2018	National Science Foundation Graduate Research Fellowship Program (GRFP) recipient at Department of Geology, University of Cincinnati OH
2014-2015	Undergraduate Student Intern at The Ohio University Continental Ichnology Research Laboratory, Athens OH
Summer 2014	University of Auckland Northern Hemisphere Research Internship at The National Institute for Water and Atmospheric Research, Wellington New Zealand
2013-2014	Undergraduate Laboratory Intern at The Ohio University Invertebrate Paleontology Laboratory, Athens OH

### (c) Publications

#### Manuscripts

1. **Parker, WG.**, Yanes, Y., Mesa-Hernández, E., Hernández-Marrero, JC., Pais, J., Soto-Contreras, ND., and Surge, D. (2018). Seasonality and Intensity of Shellfish Exploitation in the Western Canary Islands Over the Last Two Millennia. *Environmental Archaeology* 1-23. DOI: <https://doi.org/10.1080/14614103.2018.1497821>
2. **Parker, WG.**, Yanes, Y., Surge, D., and Mesa-Hernández, E. (2017). Calibration of the oxygen isotope ratios of the gastropods *Patella candei crenata* and *Phorcus atratus* as high-resolution paleothermometers from the subtropical eastern Atlantic Ocean. *Palaeogeography, Palaeoclimatology, Palaeoecology* 487, 251-259. DOI: <https://doi.org/10.1016/j.palaeo.2017.09.006>
3. **Parker, WG.**, Yanes, Y., Mesa-Hernández, E., Hernández-Marrero, JC., Pais, J., and Surge, D. (Under Review). Scale of Time Averaging in Archaeological Deposits in the Canary Islands, Spain. *The Holocene*.
4. **Parker, WG.**, Yanes, Y., Mesa-Hernández, E., and Surge, D. (In Preparation). Oceanic Cooling During the Medieval Climate Anomaly in the Subtropical North-east Atlantic. (Expected submission to *Palaeogeography, Palaeoclimatology, Palaeoecology*, 2019).

#### Abstracts and Presentations

1. **Parker, WG.**, Yanes, Y., Surge, D., and Mesa-Hernández, E. (2018). High-resolution reconstruction of the Medieval Climate Anomaly in the Subtropical Northeastern Atlantic Ocean. Poster Technical Session. American Geophysical Union *Fall Meeting Abstracts*. Washington, D.C.
2. **Parker, WG.**, Yanes, Y., Surge, D., and Mesa-Hernández, E. (2018). High-resolution Paleoclimate Reconstruction Over the Last Two Millennia in the Eastern Subtropical Atlantic Ocean. Oral

Technical Session. Geological Society of America *Abstracts with Programs* 50 (6). Indianapolis, Indiana

3. **Parker, WG.,** Yanes, Y., Mesa-Hernández, E., Hernández-Marrero, JC., Pais, J., and Surge, D. (2018). Scale of Age-mixing in Prehistoric Shell Middens in the Canary Islands, Spain. Poster Technical Session. Geological Society of America *Abstracts with Programs* 50 (6). Indianapolis, Indiana
4. **Parker., WG.,** Ramon, E., Weisz, D., Matzel, JE., Sio, C., Ramon, C., Knight, K., Kristo, M., and Weber, PK. (2018). Characterizing Grain-boundary Diffusion in UO<sub>2</sub> Fuel Pellets using NanoSIMS. Poster Presentation. Lawrence Livermore National Laboratory Summer Student Poster Forum. Livermore, California
5. **Parker, WG.,** Yanes, Y., Mesa-Hernández, E., and Surge, D. (2018). High Resolution Paleotemperature Inferences in Tenerife, Canary Islands from Archaeological *Phorcus atratus* shells. Poster Presentation. U. Cincinnati Graduate Student Exposition. Cincinnati, Ohio
6. **Parker, WG.,** Yanes, Y., Mesa-Hernández, E., Hernández-Marrero, JC., Pais, J., Surge, D., and Soto, N. (2017). Assessing the Seasonality and Intensity of Shellfish Exploitation in three Western Canary Islands Over the Last ~2000 years. Oral Technical Session. Geological Society of America *Abstracts with Programs* 49 (6). Seattle, Washington
7. **Parker, WG.,** Yanes, Y., Mesa-Hernández, E., and Surge, D. (2017). High Resolution Paleotemperature Inferences in Tenerife, Canary Islands from Archaeological *Phorcus atratus* shells. Poster Technical Session. Geological Society of America *Abstracts with Programs* 49 (6). Seattle, Washington
8. **Parker, WG.,** Yanes, Y., Surge, D., and Mesa, E. (2017). Calibrating the Oxygen Stable Isotopes of the Rocky Intertidal Gastropods *Patella crenata* and *Phorcus (Osilinus) atratus* from the Canary Islands as Paleoclimatic Proxies. Oral Technical Session. Geological Society of America *Abstracts with Programs* 49 (2). Pittsburgh, Pennsylvania
9. Soto Contreras, ND., Yanes, Y., **Parker, WG.,** Mesa-Hernández, E., Hernández-Marrero, JC., and Pais, J. (2017). Assessing the Intensity of Shellfish Exploitation from Pre-historic to Recent Times in the Canary Islands. Poster Technical Session. Geological Society of America *Abstracts with Programs* 49 (2). Pittsburgh, Pennsylvania
10. **Parker, WG.,** Yanes, Y., Surge, D., and Mesa, E. (2016). Mollusk Shells of *Patella crenata* (Gastropoda: Patellidae) from Tenerife, Canary Islands, as a Low-Latitude Paleoclimatic Proxy. Poster Technical Session. Geological Society of America *Abstracts with Programs* 48 (5). Champaign, Illinois
11. **Parker, WG.,** Yanes, Y., Surge, D., and Mesa, E. (2016). Mollusk Shells of *Patella crenata* (Gastropoda: Patellidae) from Tenerife, Canary Islands, as a Low-Latitude Paleoclimatic Proxy. Poster Presentation. U. Cincinnati Graduate Student Exposition. Cincinnati, Ohio
12. **Parker, WG.,** and Stigall, A.L. (2015). A Taphonomic Analysis of Well Preserved Bivalves from the Upper Ordovician in Maysville, Kentucky. Oral Presentation. Ohio Valley United Malacologists Annual Meeting. Pittsburgh, Pennsylvania
13. **Parker, WG.,** and Stigall, A.L. (2015). A Taphonomic Analysis of Exceptionally Preserved Bivalves from the Late Ordovician of Northern Kentucky. Poster Technical Session. Geological Society of America *Abstracts with Programs* 47 (2) p. 2. Chattanooga, Tennessee

#### (d) Grants and Awards

1. **2019 NAPC Conference Travel Award**— Travel to the North American Paleontological Convention (NAPC) Meeting in Riverside, C.A. \$350; April 2019

2. **2019 UC Geology Department Graduate Teaching Award for Introductory Courses**—*GEOL 1009: Natural Hazards*. Course taught during Autumn Semester, 2018.
3. **2019 U. Cincinnati Graduate Student Governance Association Research Fellowship**—*Using SIMS to develop a high-resolution oxygen isotope time-series for Patella candei from the Canary Islands, Spain*. \$1200; February 2019
4. **2019 University of Cincinnati Dean's Dissertation Completion Award**—Full tuition, fees, and living stipend for 2019-2020 academic year. \$34,100; Awarded January 2019
5. **2018 U. Cincinnati Graduate Student Governance Association Travel Award**—Travel to American Geophysical Union (AGU) National Meeting in Washington, D.C. \$400; December 2018
6. **2018 Paleontological Society (PS) Kenneth E. & Annie Caster Award**—*Scale of Age-mixing in Prehistoric Shell Middens in the Canary Islands, Spain*. \$1,200; May 2018
7. **2018 U. Cincinnati Student Expo Best Graduate Poster Award**—*High Resolution Paleotemperature Inferences in Tenerife, Canary Islands from Archaeological Phorcus atratus shells*. \$200; February 2018
8. **2017 U. Cincinnati Graduate Student Governance Association Travel Award**—Travel to Geological Society of America (GSA) National Meeting in Seattle, WA. \$400; October 2017
9. **2017 GSA Graduate Student Research Grant No. 11625-17**—*Shells of the limpet Patella candei as indicators of seasonal climate variability in the Canary Islands, Spain*. \$1,775; May 2017.
10. **2016 GSA Graduate Student Research Grant No. 11303-16**—*Calibration of paleoclimate proxies: Patella crenata and Phorcus atratus as SST archives in the subtropical eastern Atlantic Ocean*. \$1,875; May 2016.
11. **2016 SEPM Foundation, Inc. Student Assistance Grant**—*Archaeological shells from the Canary Islands as indicators of past climate*. \$800; May 2016.
12. **2016 PS Ellis L. Yochelson Award**—*Mollusk Shells as Environmental Archives: Reconstructing paleotemperatures during aboriginal settlement in the Canary Islands, Spain*. \$500; April 2016
13. **2015 National Science Foundation Graduate Research Fellowship Grant No. 1610397**—3-year funding of graduate study at the University of Cincinnati. \$132,000; August 2015–August 2018.
14. **2014 GSA North-Central Section Undergraduate Research Grant**—*A Taphonomic Analysis of Well-Preserved Bivalves from the Upper Ordovician in Northern Kentucky*. \$150; Dec. 2014

**(e) Additional Professional Activities**

- Guest Lectures:
  - February 2019 – GEOL 1004: Historical Geology. U. Cincinnati. Topic: *In-class laboratory assignment: Identification of Rocks and Minerals*.
  - January 2019 – GEOL 1019: Tropical Islands: Endangered Paradises. U. Cincinnati. Topic: *Introduction to Weather, Climate, and Paleoclimate*
  - January 2019 – GEOL 1019: Tropical Islands: Endangered Paradises. U. Cincinnati. Topic: *Introduction to Geology and Tropical Islands*
  - November 2018 – GEOL 1009: Natural Hazards. U. Cincinnati. Topic: *Isotope Paleothermometry*
  - September 2018 – GEOL 1009: Natural Hazards. U. Cincinnati. Topic: *Plate Tectonics I & II*
  - January 2017 – GEOL 1019: Tropical Islands: Endangered Paradises. U. Cincinnati. Topic: *Paleoenvironmental reconstructions in the Canary Islands*
  - September 2016 – GEOL 4036: Holocene Environments. U. Cincinnati. Topic: *Ice Core Paleoclimate Research*
- Invited Reviews:
  - *Palaeogeography, Palaeoclimatology, Palaeoecology*. 2019
  - *Environmental Archaeology*. 2019
  - *Palaeogeography, Palaeoclimatology, Palaeoecology*. 2017
- Conference Symposia and Topical Sessions:
  - North American Paleontological Convention. June 2019. Riverside, California. *Conservation Paleobiology: science and human forces*. Co-Chair.

- Geological Society of America Annual Meeting, October 2018. Indianapolis, Indiana. *Paleoenvironmental Reconstructions from Biogenic Carbonates* (Full-Day Topical and Poster Session). Co-Chair.
- Professional Memberships:
  - Geological Society of America
  - Paleontological Society
  - American Geophysical Union
  - The Society for Sedimentary Geology

**(f) Outreach and Community Service**

- Cincinnati LGBT Resource Center, Event Volunteer
  - Resource drive for Caracole, Inc. (HIV/AIDS Resource Center)
  - Donation drive for American Foundation for Suicide Prevention SW Ohio Chapter
  - Donation drive for Lighthouse Youth Services, Safe and Supported Program
- Secretary for the U. Cincinnati Graduate Student Geology Club, 2016-2017

**(g) Current Research Interests**

- Characterization of marine ecosystem health through analysis of heavy metals, radioisotopes, stable isotopes, biodiversity, shell sizes, and water geochemistry (implications in sustainability and characterization of short- and long-term human impacts on marine environments).
- Stable isotope composition of molluscan assemblages (implications in assessing the relationship between climate variability and cultural transitions).
- Tropical and subtropical island ecology and geoarchaeology (implications in characterizing anthropogenic impacts on island ecosystems and subsequent impacts on sustainability)
- Coastal marine environmental change through time (implications in assessing climatic teleconnections and their possible impacts on ecosystem or cultural changes)
- Carbonate system dissolution and formation processes (implications in constraining the carbon cycle)