DAMON A. MULLEN

Department of Geography
Ohio State University
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EDUCATION

2021-　　**Ph. D. Candidate in Geography**
The Ohio State University – Geography Department
Areas of Concentration: GIS, Database/Geodatabase, Geoarchaeology, climate/paleoclimate, Migration modeling; Using geographic tools and paleoclimate to research archaeological questions with a particular interest in interactions between humans and their environment
Dissertation: "New Large-Scale, Sharable, Late Pleistocene, Database and Geographic Information Systems to Facilitate Archaeological Research: Development and Case Study"
Expected Graduation: Summer 2024

2019-2021　　**M.A., Interdisciplinary Anthropology Focusing on Archaeology**
Kent State University – Anthropology Department
Areas of Concentration: Experimental archaeology, ancient innovation and the movement of ideas through time and space, state formation, the development of inequalities in human societies
Thesis: "Comparison of Maximum Forces Required to Penetrate Ten and Twenty Percent Ballistics Gelatin, Meat, and Clay to Assess Variation Between Target Media in Arrow Penetration Studies"

2015-2019　　**B.A., *Summa Cum Laude with Honors* in Multidisciplinary Studies Focusing on Anthropology and G.I.S.**
University of Akron – Anthropology Department
Areas of Concentration: Anthropology and GIS (Major), Classical Studies (Minor), Field Archaeology (Certificate), Ancient Near East, archaeometallurgy
Honor's Thesis: "A Pilot Study Comparing the Penetration Properties of Bilobed and Trilobed Bronze Arrowhead Points Modeled from Neo-Assyrian Finds from Ziyaret Tepe, Turkey"

1996-1998　　**A.A.S., *Phi Theta Kappa Honors* in Geo Graphics (GIS/GPS Technology)**
Hocking College – Natural Resources Department
Areas of Concentration: G.I.S., G.P.S., Surveying and Mapping, Computer Science

Internship – Ohio Rural Development Partnership: Land use reclamation and development

JOURNAL ARTICLES

2023

Mullen, D., Sitton, J., Story, B., Buchanan, B., Walker, S., Eren, M., Bebber, M.,
Comparison of four ballistic and thrusting target materials: an experimental and Bayesian approach using static testing. *Archaeometry* 65(5):1108–1124.

2021

Mullen, D., Matney, T., Morrison, A., Fisch, M., Buchanan, B., Bebber, M.R.
An Experimental Assessment of Neo-Assyrian Bronze Arrowhead Penetration: Comparing Bilobate versus Trilobate Morphologies. *Journal of Archaeological Science: Reports* 35:102765.

Eren, M.I., Bebber, M., Mika, A., Flood, K., Maguire, L., Norris, D., Perrone, A., **Mullen, D.**, Centea, S., Centea, C., Christy, B., Daud, R., Jackson, J., Patten, R., Redmond, B., Buchanan, B., Haythorn, R., Miller, G., Conaway, M., Biermann Gürbüz, R., Lycett, S., Kilby, D., Andrews, B., MacDonald, B., Boulanger, M., Meltzer, D.
The Nelson Stone Tool Cache, North-Central Ohio, U.S.A.: Assessing Its Cultural Affiliation
Journal of Archaeological Science: Reports 37:102972.

Damon Mullen, G. Logan Miller, Briggs Buchanan, Fernando Diez-Martin, Todd St. John, Metin I. Eren1, Michelle R. Bebber
Late Archaic and Early Woodland Stone Tools from Killbuck, Holmes County, Ohio. *Current Research in Ohio Archaeology* 2021:1-11.

Eren, M.I., **Mullen, D.,** Spurlock, L., Christy, B., Miller, G. L., Buchanan, B., Bush, J., Bebber, M.
Technical Descriptions of Artifacts from the Dresden Mound Cache, Ohio.
Current Research in Ohio Archaeology 2021:1-30.

REFEREED ARTICLES UNDER REVIEW

Hubbe, M. et al. (Under Revision)
Faunal investigation of late Quaternary deposits of the Cuvieri Cave identifies large demographic expansion in grey brocket deer [Subulo gouazoubira (G. Fisher, 1814), Cervidae, Mammalia] in Brazil. *Journal of Quaternary Science*.

ARTICLES IN PREPARATION

Mullen, D., Montenegro, A.
> The Role of Databases, Temporal Geographic Information Systems, and Migration Modeling in Archaeology.

Mullen, D., Montenegro, A.
> Towards the Development of a Temporal GIS (TGIS) to Visualize and Analyze Paleoclimatic, Environmental, and Archaeological Data, Focusing on the Peopling of the Americas

Mullen, D., Montenegro, A.
> Developing a Database for Storing, Reporting, and Analyzing Archaeological Site Data in Context with Geographic and Temporal Climate Data, Focusing on Northeast Asia and the Americas from 50,000 to 10,000 BP.

Mullen, D., Montenegro, A.
> Revisiting Models of Human Migration Out of Africa: A New Perspectives and Revised Models.

CONFERENCE PAPERS

2024 **Mullen D., Montenegro A.**
Employing Geographic Models to Constrain Theories of the Peopling of the Americas.

2023 **Mullen, D., Montenegro, A. –** Prehistoric Hookworm and the Peopling of the Americas: enhancing theories based on paleoclimate models and pathogens – Society of American Archaeologists Annual Meeting; Portland, Oregon

Mullen, D. – The Development of a Geographic Information System to Store Data and Facilitate in the Analysis of the Peopling of the Americas – Eastern Lakes Division of the American Association of Geographers

2022 **Mullen, D., Montenegro, A. –** Parasites, Paleoclimate, and the Peopling of the Americas II – East Lakes Division of the American Association of Geographers 2022 Annual Meeting; Muskegon, Michigan

Mullen, D., Montenegro, A. – Parasites, Paleoclimate, and the Peopling of the Americas II – Paleopathology Association of Europe 23rd Annual Conference; Vilnius, Lithuania

Mullen, D., Montenegro, A. – Parasites, Paleoclimate, and the Peopling of the Americas II – Paleopathology Association of North America 49th Annual Conference; Denver, Colorado

COURSES TAUGHT AS INSTRUCTOR OF RECORD

Au-2023   **GEOG 1000** – World Regional Geography – Otterbein University
Su-2023   **GEOG 5010** – Fundamentals of GIS – The Ohio State University

OTHER TEACHING EXPERIENCE

Au-2024   **Lab Instructor** – Ohio State University – Geovisualization
Sp-2024   **Lab Instructor** – Ohio State University – Geospatial Database for GIS
Au-2023   **Lab Instructor** – Ohio State University – Geospatial Database for GIS
Sp-2023   **Teaching Assistant** – Ohio State University – Our Global Environment
Au-2022   **Lab Instructor** – Ohio State University – Geospatial Database for GIS
Sp-2022   **Teaching Assistant –** Ohio State University – Global Climate Change
Au-2021   **Lab Instructor** – Ohio State University – Cartography
2019-2021   **Lab Instructor** – Kent State University – Issues in Human Evolution
                   (In-person, Remote Synchronous, and Online formats)
2001-2012   **Software Training** – Davey Resource Group – Work Planning Software

GUEST LECTURES

2019   Late Bronze Age / Early Iron Age Transition in the Mediterranean – Ancient Civilizations – Kent State University – Instructor: Dr. Michelle Bebber; Kent, Ohio
2018   Applications of G.I.S. in Archaeology – Archaeological Lab Methods – University of Akron – Instructor: Dr. Eugenia Gorogianni; Akron, Ohio

ACADEMIC AND DEPARTMENT SERVICE

2023-2024   **Peer-Reviewer for the journal,** *Archaeometry*
2020   **Evolution Lab Co-Coordinator** – Kent State University under Dr. Anthony Tosi

GRANTS, AWARDS, & SCHOLARSHIPS

2023   **Fenburr Travel Scholarship for Outstanding Graduate Students** – Ohio State University, Geography
2021-2024   **Teaching Assistantship** – Ohio State University, Geography

2020	**G.S.S. Research Grant** – Kent State University, Graduate Student Senate
2020	**G.S.S. International Travel Award** – Kent State University, Graduate Student Senate
2020	**G.S.S. Book Award** – Kent State University, Graduate Student Senate
2019-2021	**Teaching Assistantship** – Kent State University, Anthropology

PROFESSIONAL EXPERIENCE

2012-2014   Database and G.I.S. Analyst, Developer, and Administrator
Red Hill Development, Kimble Companies – Dover, Ohio

2001-2012   Project Manager and Developer of Data Systems
Davey Resource Group, Davey Tree – Kent, Ohio

2000-2001   AM/FM Landbase Technician and Quality Control
SAMS Project – Dominion East Ohio Gas, Cleveland, Ohio

1998-1999   G.I.S. Senior Technician / Project Supervisor and Quality Control
Ralph Tyler Companies – Cleveland, Ohio

1997-1998   Project Lead – Mapping Digitization and G.I.S. Implementation
Internship for the Ohio Rural Development Partnership through Hocking College

RESEARCH EXPERIENCE

2022-	**Agent Based Modeling the Peopling of the Americas** – Primary Investigator with Dr. Alvaro Montenegro
2021-	**Temporal G.I.S. and Database Development for the Peopling of the Americas** – Primary Investigator with Dr. Alvaro Montenegro
2021-	**Ziyaret Tepe G.I.S. Development and Mapping** – Development of G.I.S. Mapping and Database system for the Ziyaret Tepe Archaeological Site
2019	**Geometric Morphometrics Entry Technician** – University of Akron under Dr. Michael Shott. Digitization of Morphometric indices on photographs of stone points
2017-2019	**Research Assistant** – University of Akron under Dr. Eugenia Gorogianni. G.I.S. development and map generation, database development, and network analysis tool implementation
2018	**GIS Development and Map Generation** – University of Akron under Linda Whitman, M.A. G.I.S. development and map generation for the Prather site

ARCHAEOLOGICAL FIELD EXPERIENCE

2019	**Field Technician** – Hartley Mastodon Site under Dr. Michelle Bebber

2019   **Field Technician** – Multiple Sites under Eric Olson M.A.
2018   **Student Technician** – Prather Site under Linda Whitman M.A.
2018   **Field Technician** – Multiple Sites under Eric Olson M.A.
2017   **Student Technician** – Garfield House under Dr. Timothy Matney

MEMBERSHIPS & ACTIVITIES

Association of American Geographers – Member
Society for American Archaeology – Member
Archaeological Institute of America – Former Member
Paleopathology Association of North America – Former Member
American Society of Overseas Research – Former Member

REFERENCES

Dr. Alvaro Montenegro – (614) 292-2514 montenegro.8@osu.edu
Associate Professor – Department of Geography, Ohio State University

Dr. Ningchuan, Xiao – (614) 292-4072 xiao.37@osu.edu
Professor of Geography – Department of Geography, Ohio State University

Dr. Michelle R. Bebber – (330) 672-2705 mbebber@kent.edu
Assistant Professor of Anthropology – Department of Anthropology, Kent State University

Dr. Metin I. Eren – (330) 672-4363 meren@kent.edu
Associate Professor of Anthropology – Department of Anthropology, Kent State University

Dr. Timothy Matney – (330) 972-6892 matney@uakron.edu
Professor of Archaeology – Department of Anthropology & Classical Studies, The University of Akron