

CLAUDINE GRAVEL-MIGUEL, PH.D.

Research Scientist,

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Education

Arizona State University	Anthropology (Archaeology)	Ph.D., 2017
University of Victoria	Anthropology (Archaeology)	M.A., 2011
McGill University	Anthropology major, Hispanic studies minor	B.A., 2009

Relevant professional experience

2023-present	Research Scientist , Center for Applied Fire and Ecosystem Science, New Mexico Consortium (USA)
2022-2023	Data Science Specialist , ASU Enterprise Partners (USA)
2017-2022	Postdoctoral Research Scholar , Institute of Human Origins, ASU (USA)

Recent publications

- Sparacello V. S., Goude G., Varalli A., Dori I., **Gravel-Miguel C.**, Riel-Salvatore J., Palstra S. W. L., Moggi J., Negrino F., and E. Starnini. (2023) *Human remains from Arma di Nasino (Liguria) provide novel insights into the paleoecology of early Holocene foragers in northwestern Italy*. Scientific Report 13(1): 16415
- Gravel-Miguel, C.** and F. Coward. (2023) Palaeolithic social networks and behavioural modernity. In M. Peebles, J. Munson, B. Mills, and T. Brughmans (Eds.), *The Oxford Handbook of Archaeological Network Research*. Oxford: Oxford University Press: 443
- Grobler B. A., Franklin J., Marean C. W., **Gravel-Miguel C.**, Cowling R. M. (2023) *The importance of C 3 and C 4 grasses and CAM shrubs in the Greater Cape Floristic Region under contemporary and Last Glacial Maximum climates*. Quaternary Science Reviews 318:108294
- Gravel-Miguel, C.** (2023) The impact of Magdalenian Hunter-Gatherers on their environment. In *Modelling Human-Environment Interactions in and beyond Prehistoric Europe* (Samuel Seuru and Benjamin Albouy, Eds), Themes in Contemporary Archaeology, Springer: 61-74
- Gravel-Miguel, C.** J. Hodgkins, C.M. Orr, E. Cristiani, D. Strait, M. Peresani, S. Benazzi, G. Pothier-Bouchard, H.M. Keller, D. Meyer, D. Drohobytsky, S. Talamo, C.E. Miller, F. Negrino, J. Riel-Salvatore. (2023) *The ornaments of the Arma Veirana Early Mesolithic infant burial*. Journal of Archaeological Method and Theory.
- Gravel-Miguel, C.**, J. Hodgkins, C.M. Orr, E. Cristiani, D. Strait, M. Peresani, S. Benazzi, G. Pothier-Bouchard, H.M. Keller, D. Meyer, D. Drohobytsky, S. Talamo, C.E. Miller, F. Negrino, J. Riel-Salvatore. (2022) *The ornaments of the Arma Veirana Early Mesolithic infant burial*. Journal of Archaeological Method and Theory.
- Gravel-Miguel, C.**, J. DeVynck, C.D. Wren, J.K. Murray, C.W. Marean. (2022) *Understanding the intensity of prehistoric coastal occupation*, Quaternary International 638-639: 148-158
- Fernandez Lopez de Pablo, J., M. Hamilton, **C. Gravel-Miguel**, A. Migliano, F. Riede, M. Derex, E. Gjesfjeld, V. Romano, S. Lozano Pérez. (2022) To understand cultural evolution in Hunter-Gatherers, we need to adopt 'Network Thinking', *TREE*
- Torrese P., F. Zucca, S. Martini, S. Benazzi, D. Drohobytsky, **C. Gravel-Miguel**, J. Hodgkins, D. Meyer, C. Miller, M. Peresani, C. Orr, J. Riel-Salvatore, D.S. Strait, F. Negrino. (2022) *Ground-truth validated 3D electrical*

resistivity imaging of the Archaeological deposits at Arma Veirana Cave (Northern Italy). Journal of Quaternary Science.

- Hodgkins J., C.M. Orr, **C. Gravel-Miguel**, J. Riel-Salvatore, L. Bondioli, E. Cristiani, L. Mancini, A. Nava, F. Lugli, S. Silvestrini, M. Romandini, S. Arrighi, F. Baruffaldi, G. Pothier-Bouchard, D. Meyer, D. Drohobytsky, S. Talamo, H.M. Keller, R. Belén Griggs, C.E. Miller, M. Peresani, D.S. Strait, S. Benazzi, F. Negrino. (2021) *Infant funeral rites and female personhood in early Mesolithic Europe*, Scientific Reports 11: 23735
- Sparacello, V.S., I. Dori, S. Rossi, A. Varalli, J. Riel-Salvatore, **C. Gravel-Miguel**, A. Riga, F. Seghi, G. Goude, S.W.L. Pastra, E. Starnini, V. Formicola, and J. Moggi-Cecchi. (2021) New human remains from the Late Epigravettian “necropolis” of Arene Candide (Liguria, northwestern Italy): direct radiocarbon evidence and inferences on the funerary use of the cave during the Younger Dryas, *Quaternary Science Reviews* 268:107131
- Gravel-Miguel, C.**, J. K. Murray, B. J. Schoville, C. D. Wren, and C. W. Marean. (2021) Explaining variability in lithic armature discard in the Middle Stone Age archaeological record. *Journal of Human Evolution* 155:102981
- Hirniak, J., E. Smith, R. Johnsen, M. Ren, J. Hodgkins, C. Orr, J. Riel-Salvatore, S. Fitch, C.E. Miller, A. Zerboni, G.S. Mariani, J. Harris, **C. Gravel-Miguel**, D. Strait, M. Peresani, S. Benazzi, and C.W. Marean, (2020) . Discovery of cryptotephra at Middle-Upper Paleolithic sites Arma Veirana and Riparo Bombrini, Italy: A new link for broader geographic correlations, submitted to the *Journal of Quaternary Science* 35(2):199-212
- Gravel-Miguel, C.** (2018) The Magdalenian environmental and social contexts of Le Placard. In *The Grotte du Placard at 150. New Considerations on an exceptional prehistoric site* (C. Delage, ed), Archaeopress Archaeology, Oxford, pp. 157-169
- Gravel-Miguel, C.** and C. D. Wren. (2018) Agent-based least-cost path analysis and the diffusion of Cantabrian Lower Magdalenian engraved scapulae. *Journal of Archaeological Science* 99:1-9
- Riel-Salvatore, J., **C. Gravel-Miguel**, R. Maggi, G. Martino, S. Rossi, and V.S. Sparacello. (2017) New insights into Epigravettian funerary ritual at Caverna delle Arene Candide. In *Palaeolithic Italy: Advanced studies on early human adaptations in the Apennine Peninsula* (V. Borgia & E. Cristiani, eds), Sidestone Press, Leiden, pp. 335-356

Recent projects

- Research Scientist: *Advancing LiDAR applications for DoD cultural resource management through machine learning algorithms for archaeological survey and risk modeling for cultural resource hazard assessments* (DoD Environmental Security Technology Certification Program (2024-2027))
- Research Scientist: *Cultural Resource Detection using Light Detection and Ranging for Management during Pre-planning in Timber and Fire Activities* (USDA Forest Service Cooperative Agreement, 2022-2025)
- Principal Investigator: *Documenting forager adaptations to dramatic climate change at the Pleistocene-Holocene transition in Liguria (Italy)* (Insight Grant, Social Science and Humanities Research Council, 2021-2026)
- Principal Investigator: *Contextualizing the Upper Paleolithic burial from Arma Veirana* (Insight Development Grant, Social Science and Humanities Research Council, 2018-2022)
- Project lead: *Portable Art and Social Networks: A Study of Raw Material Sources in the Production of Engraved Stone Plaquettes and Figurines around the Last Glacial Maximum* (Joseph-Armand Bombardier Canada Graduate Scholarship: Doctoral Scholarship, 2011-2015)
- Project lead: *Portable art as communication device around the Last Glacial Maximum* (Joseph-Armand Bombardier Canada Graduate Scholarship: Master’s Scholarship, 2010)