

## CURRICULUM VITAE

Isaac I. T. Ullah  
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### EDUCATION

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| 2013 | <b>Arizona State University</b>        |
| PhD  | Anthropology                           |
| 2003 | <b>University of Toronto</b>           |
| MA   | Anthropology                           |
| 2001 | <b>University of California, Davis</b> |
| BS   | Anthropology                           |

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### ACADEMIC POSITIONS HELD

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|----------------------------|--------------------------------------|
| Fall 2019 – Present        | <b>Associate Professor</b>           |
| San Diego State University | Anthropology                         |
| Fall 2016 – Spring 2019    | <b>Assistant Professor</b>           |
| San Diego State University | Anthropology                         |
| Fall 2014 – Summer 2016    | <b>Postdoctoral Research Scholar</b> |
| Arizona State University   | Anthropology                         |
| Fall 2013 – Summer 2014    | <b>Visiting Scholar</b>              |
| University of Pittsburgh   | Anthropology                         |
| Fall 2012 – Spring 2013    | <b>Visiting Assistant Professor</b>  |
| University of Notre Dame   | Anthropology                         |
| Fall 2010, Fall 2011       | <b>Adjunct Professor</b>             |
| Mesa Community College     | Cultural Sciences                    |

\* denotes papers with current or former students, ^ denotes corresponding author

**BOOKS AND MONOGRAPHS**

1. 2017. **Ullah, I.I.T.** *The consequences of human land-use strategies during the PPNB-LN transition: a simulation modeling approach.* Arizona State University Anthropological Research Papers, v.60. Arizona Board of Regents, Tempe. 177p.

**REFEREED JOURNAL ARTICLES**

1. \*^2024. Kopels, M.C., and **Ullah, I.I.T.**, *Modeling post-Pleistocene megafauna extinctions as complex social-ecological systems.* Quaternary Research. First view, pp. 1-14 <https://doi.org/10.1017/qua.2024.6>
2. 2024. Barton, C.M., Aura Tortosa, E., García Puchol, O., Riel-Salvatore, J., **Ullah, I.I.T.** *Risk and Resilience in Deep Time: Lessons for an Invisible Future from an Invisible Past.* The Holocene. <https://doi.org/10.1177/09596836241259788>
3. \*^2024. **Ullah, I.I.T.**, Clow, Z., and Meling, J. *Paradigm or Practice? Situating GIS in contemporary archaeological method and theory.* Journal of Archaeological Method and Theory. 31(3):1185-1231. <https://doi.org/10.1007/s10816-023-09638-1>
4. 2020. Elsworth, S., Filatova, T., Jakeman, A.J., Kettner, A.J., Zellner, M.L., Athanasiadis, I.N., Hamilton, S.H., Axtell, R.L., Brown, D.G., Gilligan, J.M., Janssen, M.A., Robinson, D.T., Rozenberg, J., **Ullah, I.I.T.**, Lade, S.J. *Eight grand challenges in socio-environmental systems modeling.* Socio-Environmental Systems Modelling. 2, 16226. <https://doi.org/10.18174/sesmo.2020a16226>
5. \*2019. Phukan, A., Braje, T.J., Rockwell, T.K., **Ullah, I.I.T.** *Shorelines in the Desert: Mapping Fish Trap Features along the Southwest Coast of Ancient Lake Cahuilla, California.* Advances in Archaeological Practice. 7(4):325-336. <https://doi.org/10.1017/aap.2019.31>
6. \*2019. Chesson, M.S., **Ullah, I.I.T.**, Iiriti, G., Forbes, H., Lazrus, P.K., Ames, N., Garcia, Y., Bencheikroun, S., Robb, J., Wolff, N.P.S., Squillaci, M.O. *Archaeology as Intellectual Service: Engaged Archaeology in San Pasquale Valley, Calabria, Italy.* Archaeologies: Journal of the World Archaeological Congress. 15(3):422-443. <https://doi.org/10.1007/s11759-019-09376-5>
7. \*2019. Chesson, M.S., **Ullah, I.I.T.**, Aimes, N., Bencheikroun, S., Forbes, N., Garcia, Y., Iiriti, G., Lazrus, P.K., Robb, J., Squillaci, M.O., and Wolff, N.P.S. *Laborscapes and Archaeologies of Sustainability: Early Globalization and Commercial Farming in the San Pasquale Valley, Calabria, Italy from 1800 – 2018.* Journal of Mediterranean Archaeology, 32(1):32-62. <http://dx.doi.org/10.1558/jma.39327>
8. ^2019. **Ullah, I.I.T.**, Chang C., and Tourtellette, P. *Water, dust, and agro-pastoralism: Modeling socio-ecological co-evolution of landscapes, farming, and human society in southeast Kazakhstan during the mid to late Holocene.* The Journal of Anthropological Archaeology. 55:1-17. <https://doi.org/10.1016/j.jaa.2019.101067>
9. 2018. Robinson, D.T.; Di Vittorio, A.; Alexander, P.; Arneth, A.; Barton, C.M.; Brown, D.G.; Kettner, A.; Lemmen, C.; O'Neill, B.C.; Janssen, M.; Pugh, T.A.M.; Rabin, S.S.; Rounsevell, M.; Syvitski, J.P.; **Ullah, I.I.T.**, and Verburg, P.H. *Modeling feedbacks between human and natural processes in the land system.* Special Issue: “Social dynamics and planetary boundaries in Earth system modelling.” Earth System Dynamics. 9, 895–914. <https://doi.org/10.5194/esd-9-895-2018>
10. 2018. Banning, E.B., Hitchings, P., Abu Jayyab, K., **Ullah, I.I.T.**, Rhodes, S., Yasui, E., Gibbon, E., Handziuk, N., Glasser, A. *Jawafat Shaban and the Late Neolithic in Wādī Al-Bîr, Northern Jordan.* Paléorient, 44(1). 57-74. [https://www.persee.fr/doc/paleo\\_0153-9345\\_2018\\_num\\_44\\_1\\_5785](https://www.persee.fr/doc/paleo_0153-9345_2018_num_44_1_5785)
11. 2016. Barton, C.M., **Ullah, I.I.T.**, Bergin, S.M., Sarjoughian, H.S., Mayer, G.R., Bernabeu Auban, J.E., Heimsath, A.M., Acevedo, M.F., Riel-Salvatore, J.G., and Arrowsmith, J.R. *Experimental socioecology: integrative science for Anthropocene landscape dynamics.* Anthropocene. 13:34-45. <https://doi.org/10.1016/j.ancene.2015.12.004>

12. ^2015. **Ullah, I.I.T.**, Kuijt, I., and Freeman, J.F. *Toward a theory of punctuated subsistence change*. Proceedings of the National Academy of Sciences. 112(31):9579–9584. <https://doi.org/10.1073/pnas.1503628112>
13. 2015. **Ullah, I.I.T.** *Integrating older survey data into modern research paradigms: Identifying and correcting spatial error in “legacy” datasets*. Advances in Archaeological Practice. 3(4):331-350. <https://doi.org/10.7183/2326-3768.3.4.331>
14. 2015. Barton, C.M., **Ullah, I.I.T.**, and Heimsath, A. *How to make a Barranco: Modeling socioecological dynamics of landscape change in the Mediterranean*. Land, special issue: “Agent-Based Modelling and Landscape Change.” 4(3), 578-606. <https://doi.org/10.3390/land4030578>
15. ^2015. **Ullah, I.I.T.**, Duffy, P.R., and Banning, E.B. *Modernizing spatial micro-refuse analysis: New methods for collecting, analyzing, and interpreting the spatial patterning of micro-refuse from house-floor contexts*. Journal of Archaeological Method and Theory. 22(4):1238-1262. <https://doi.org/10.1007/s10816-014-9223-x>
16. 2012. Barton, C.M., **Ullah, I.I.T.**, Bergin, S.M., Mitsova, H., and Sarjoughian, H. *Looking for the future in the past: Long-term change in socioecological systems*. Ecological Modeling, special issue: “Modeling Across Millennia.” 241:42-53. <https://doi.org/10.1016/j.ecolmodel.2012.02.010>
17. 2011. **Ullah, I.I.T.** *A GIS method for assessing the zone of human-environmental impact around archaeological sites: a test case from the Late Neolithic of Wadi Ziqlâb, Jordan*. Journal of Archaeological Science. 38(3):623-632. <https://doi.org/10.1016/j.jas.2010.10.015>
18. 2010. Barton, C.M., **Ullah, I.I.T.**, and Bergin, S. *Land use, water and Mediterranean landscapes: Modelling long-term dynamics of complex socio-ecological systems*. Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences. 368(1931):5275 -5297. <https://doi.org/10.1098/rsta.2010.0193>
19. 2010. Barton, C.M., **Ullah, I.I.T.**, and Mitsova, H. *Computational modeling and Neolithic socioecological dynamics: A case study from Southwest Asia*. American Antiquity. 75(2):364-386. <https://doi.org/10.7183/0002-7316.75.2.364>

## REFEREED BOOK CHAPTERS

1. 2022. Barton, C.M., **Ullah I.I.T.**, Gauthier, N., Miller, N., Snitker, G., Esteban-Alamá, I., Bernabeu Aubán, J., and Heimsath, A. “Digital Proxies” for Validating Models of Past Socio-ecological Systems in the Mediterranean Landscape Dynamics Project. In: Salvador Pardo-Gordó and Sean Bergin (Eds.) Simulating Transitions to Agriculture in Prehistory, pp. 195–224. Computational Social Sciences. Springer International Publishing, Cham. [https://doi.org/10.1007/978-3-030-83643-6\\_10](https://doi.org/10.1007/978-3-030-83643-6_10)
2. 2015. Sarjoughian, H., Mayer, G., **Ullah, I.I.T.**, and Barton, C.M. *Managing Hybrid Model Composition Complexity: Human–Environment Simulation Models*. In: Levent Yilmaz (Ed.), Concepts and Methodologies for Modeling and Simulation. Springer International, Cham. [https://doi.org/10.1007/978-3-319-15096-3\\_6](https://doi.org/10.1007/978-3-319-15096-3_6)
3. 2013. Mitsova, H., Barton, C.M., **Ullah, I.I.T.**, Hofierka, J., and Harmon, R.S., *GIS-based soil erosion modeling*. In: Treatise in Geomorphology, Vol. 3: Remote Sensing and GIScience in Geomorphology. Academic Press, San Diego. pp. 228-258. <https://doi.org/10.1016/B978-0-12-374739-6.00052-X>
4. ^2012. **Ullah, I.I.T.**, and Bergin, S.M. *Modeling the consequences of village site location: Least cost path modeling in a coupled GIS and agent-based model of village agropastoralism in eastern Spain*, in: White, D.A., Surface-Evans, S.L. (Eds.), Least Cost Analysis of Social Landscapes: Archaeological Case Studies. University of Utah Press, Salt Lake City, pp. 155–173. <https://dx.doi.org/10.1353/book41407>
5. ^2012. **Ullah, I.I.T.** *Particles from the past: microarchaeological spatial analysis of ancient house floors*. In: Parker, B.J., Foster, C.P. (Eds.), New Perspectives in Household Archaeology. Eisenbrauns, Winowna Lake, pp. 123–138. <https://www.eisenbrauns.org/books/titles/978-1-57506-252-5.html>

## BOOK CHAPTERS IN REVIEW

1. ^**Ullah, I.I.T.** *Ch. 25, Geomorphometry for archaeology*. Chapter for inclusion in the revised 2<sup>nd</sup> edition of Geomorphometry: Concepts, Software, Applications, H.I. Reuter, C. Grohmann and V. Lecours, eds. Elsevier, Amsterdam. Chapter status: Submitted, December 2024, under initial editorial review.

## REFEREED PROCEEDINGS

1. 2024. Banning, E.B., Edwards, S., and **Ullah, I.I.T.** *Survey Planning, Allocation, Costing and Evaluation (SPACE) Project: Developing a Tool to Help Archaeologists Conduct More Effective Surveys*. *Proceedings of the CAA 2023 conference*. <https://doi.org/10.5281/zenodo.8072178>
2. \*^2021. Benchekroun, S., and **Ullah, I.I.T.** Preserving the Past for an Uncertain Future: Accessible, Low-Cost Methods for 3-D Data Creation, Processing, and Dissemination in Digital Cultural Heritage Preservation. In *The 26th International Conference on 3D Web Technology (Web3D '21)*, November 8–12, 2021, Pisa, Italy. ACM, New York, NY, USA, 9 pages. <https://doi.org/10.1145/3485444.3507684>

## REFEREED COMPUTER SOFTWARE

1. \*^2024. **Ullah, I.I.T.**, & Kopels, M. C. *The Megafauna Hunting Pressure Model v1.0.0* - The Megafaunal Hunting Pressure Model (MHPM) is an interactive, agent-based model designed to conduct experiments to test megaherbivore extinction hypotheses. *CoMSES Computational Model Library*. <https://www.comses.net/codebases/d42eac84-ac76-43f7-8c14-5f5cc5fbf7f8/releases/1.0.0/>
2. ^2022. **Ullah, I.I.T.**, *The Archaeological Sampling Experimental Laboratory (tASEL) (version 1.1.1)* - The Archaeological Sampling Experimental Laboratory (tASEL) is an interactive tool for setting up and conducting experiments about sampling strategies for archaeological excavation, survey, and prospection. Retrievable from: *CoMSES Computational Model Library*. <https://www.comses.net/codebases/addd3c54-d89a-4773-a639-8bf19bcf59ea/releases/1.1.1/>
3. 2015. Barton, C.M., **Ullah, I.I.T.**, Mayer G., Bergin, S., Sarjoughian, H., and Mitsova, H. *MedLand Modeling Laboratory v.1* - A hybrid modeling environment that couples an agent-based model of small-holder agropastoral households and a cellular landscape evolution model that simulates changes in erosion/deposition, soils, and vegetation. Retrievable from: *CoMSES Computational Model Library*. <https://www.comses.net/codebases/4609/releases/1.1.0/>

## NON-REFEREED ARTICLES IN PROFESSIONAL PUBLICATIONS

1. 2020. Banning, E., Gibbs, K., Abu Jayyab, K., Edwards, S., Elendari, R., Gibbon, E., Glasser, A., Handziuk, N., Hitchings, P., Letham, B., Masur, L., Rhodes, S., Schwartz, I., Thaher, A., **Ullah, I.**, & Yasui, E. *Excavations Tabaqat ar-Rutubah, a Yarmukian Site in Wādī Qusaybah, northern Jordan*. *Annual of the Department of Antiquities of Jordan*. 61:71–94.
2. 2017. Marwick, B., d'Alpoim Guedes, J., Barton, C.M., Bates, L.A., Baxter, M., Bevan, A., Bollwerk, E.A., Bocinsky, R.K., Brughmans, T., Carter, A.K., Conrad, C., Contreras, D.A., Costa, S., Crema, E.R., Daggett, A., Davies, B., Drake, B.L., Dye, T.S., France, P., Fullagar, R., Giusti, D., Graham, S., Harris, M.D., Hawks, J., Heath, S., Huffer, D., Kansa, E.C., Kansa, S.W., Madsen, M.E., Melcher, J., Negre, J., Neiman, F.D., Opitz, R., Orton, D.C., Przystupa, P., Raviele, M., Riel-Salvatore, J., Riris, P., Romanowska, I., Strupler, N., **Ullah, I.I.T.**, Van Vlack, H.G., Watrall, E.C., Webster, C., Wells, J., Winters, J., Wren, C.D. *Open Science in Archaeology*. *The SAA Archaeological Record*. 17(4):8-14. <https://doi.org/10.17605/OSF.IO/3D6XX>
3. 2015. Banning, E.B., Gibbs, K., **Ullah, I.I.T.**, Hitchings, P., Abu Jayyab, K., Edwards, S., and Rhodes, S. *Archaeological Excavations in Wadi Quseiba and Wadi al-Bîr, northern Jordan*. *Antiquity Project Gallery*. 344. <http://antiquity.ac.uk/projgall/508>
4. 2013. Banning, E.B., Hitchings, P., Abu Jayyab, Elendari, R., K. Gibbs, K., Jablonkay, D., Al Jarrah, H., Letham, B., Razzaz, S., **Ullah, I.I.T.**, and Weston, R. *2013 Archaeological survey in Wadi Qusayba and the Mandah Plateau, Irbid Region, Jordan*. *Annual of the Department of Antiquities of Jordan*. 57:463-475.
5. 2009. **Ullah, I.I.T.** *Within-room spatial analysis of activity areas at Late Neolithic Tabaqat Al-Buma, Wadi Ziqlab, Al Koura, Jordan*. In: *Studies in the History and Archaeology of Jordan, X*. The Department of Antiquities of Jordan, Amman, pp. 87-95.

## TECHNICAL REPORTS

1. \*^2017. Loucks, V., Navarro, S., and Ullah, I.I. *Lemon Grove Trees Digitization Project*. Final report filed with the City of Lemon Grove, and the SDSU Sage Project.
2. 2014. Banning, E.B., Abu Jayyab, K., Elendari, R., Gibbs, K., Hitchings, P., Hosseinmardi, G., Jablonkay, D., Al Jarrah, H., Letham, B., Razzaz, S., Rhodes, S., **Ullah, I.I.T.**, and Velgakis, J., and Weston, R. *Archaeological excavations in Wadi Quseiba and Wadi al-Bîr, northern Jordan, 2014*. Report on file with the Department of Antiquities of Jordan, Amman.
3. ^2012. **Ullah, I.I.T.** *Chapter IIb - Neixon 2011, Artifact density studies*, in: Fábregas Valcarce, R., Bonilla Rodríguez, A. (Eds.), *Boiro: 5000 Anos De Cambio Climático E Explotación Do Medio No Marco De Arousa Norte Sondaxes Arqueolóxicas. E Labores De Restauo No Complexo Dos Castros Do Neixón (The Concello De Boiro and Centro Arqueolóxico Do Barbanza)*, Memoria Técnica. The Concello de Boiro and Centro Arqueolóxico do Barbanza.
4. ^2008. **Ullah, I.I.T.**, Schuldenrien, J., and Smith, M. *Preliminary report of the 2008 season of the Wadi Hasa Ancient Pastoralism Project*. Report on file with the Department of Antiquities of Jordan, Amman.

## BOOK REVIEWS

1. 2014. **Ullah, I.I.T.** Review of: *Mediterranean Archaeological Landscapes: Current Issues*. Geoarchaeology. 29(2), March/April, 2014.
2. 2007. **Ullah, I.I.T.** Review of: *Human Ecology in the Wadi Al-Hasa: Land Use and Abandonment through the Holocene*. American Anthropologist. 109(1):216.
3. 2002. Gibbs, K., Kadowaki, S., and **Ullah, I.I.T.** *Domesticating Space: Notes on the Toronto Conference*. Neolithics. 1/02:21-22. *Authorship contributions*. 33% of writing, 33% of research.

## JOURNAL ARTICLES SUBMITTED

1. **Ullah, I.I.T.** *Sampling Matters: What Simulation Modeling and Microrefuse Sampling Practice Reveal about Archaeological Sampling, Training, and Design*. Submitted to Advances in Archaeological Practice, 08/14/2025. Current status: Under peer review (08/20/2025).

## JOURNAL ARTICLES IN PROGRESS

1. ^\***Ullah, I.I.T.**, Chesson, M.S., Lazrus, P.K., Michelaki, K. *Rural land-use, rainfall, and anthropogenic erosion in the San Pasquale Valley, Calabria, from 1902 to 2017*. Intended for Journal of Anthropological Archaeology. Status 90% complete. Intended for submission in Fall 2025.
2. Michelaki, K., **Ullah, I.I.**, Hancock, R., Braun, G.V., Robb, J. *Making by Rules-Making by Instinct: Questioning ceramic typologies in Neolithic Southern Italy*. Intended for American Antiquity. Status 90% complete. Intended for submission in Fall 2025.
3. ^\***Ullah, I.I.T.**, Piel, D., Sakai, S., Chang, C., Tourtellotte, P. *A sediment granulometry approach to anthropogenic landscape impacts in southeastern Kazakhstan*. Intended for publication in Geoarchaeology - An International Journal. Status, 40% complete, intended for submission Spring 2025.
4. ^**Ullah, I.I.T.** and Arikan, B. *Computer-based simulation of surface-processes, and digital reconstruction of paleoenvironment during the Early Bronze Age-I at Arslantepe-Malatya, Eastern Turkey*. Intended for Geoarchaeology - An International Journal. Status 90% complete. Intended for submission in Summer 2025



## BOOK CHAPTERS IN PROGRESS

5. Mathwich, N. and **Ullah, I.I.T.** *Colonial livestock raiding: Using agent-based modeling to understand human culling on herd dynamics in Sonora*. Intended for an edited volume about the impacts of the Columbian Exchange. Volume is currently being reviewed for inclusion in the Archaeological Papers of the American Anthropological Association. Chapter status: 10% complete, intended submission Summer 2025.

## ACCEPTED SPECIAL JOURNAL ISSUES ORGANIZED

1. Paliou, E., Angourakis, A., and **Ullah, I.I.T.** *Advances in modelling past human ecosystems*. Special issue of Journal of Computer Applications in Archaeology. Proposal accepted, 09/04/2024. Submission will continue until 12/31/2025.

## SCHOLARLY AWARDS

1. 2010. The University Consortium for Geographic Information Science (UCGIS), Student Paper Award

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## EXTERNALLY FUNDED RESEARCH GRANTS, PI OR CO-PI

1. \$10,000 (estimated market value of geodata files provided) - *Erosion modeling of the San Pasquale Valley, Calabria, Italy*. PI: Isaac I. Ullah. Co-I's: Meredith Chesson (Univ. Notre Dame), Kostalena Michelaki (ASU), Paula Lazrus (St. Johns Univ.). German Aerospace Center (DLR), Joint RCM-PAZ-TanDEM-X Experiment Proposal Opportunity. 6pp. Provided ~1600 km<sup>2</sup> TanDEM-X 12m digital elevation data. Funding rate: unknown. Grant Duration: 2024-2025.
2. \$149,476 [SDSU Portion: \$50,000] - *Community Heritage Empowerment Toolkit (CHET): A Standards-Based Toolkit for Documenting a Structure's Life History for Grassroots Heritage Preservation Organizations*. PI's: Lori C. Walters (UCF) & **Isaac I. Ullah (SDSU)**. Co-I's: Joseph T. Kider, Robert A. Michlowitz (UCF), David P. Cline, Seth Mallios (SDSU). National Endowment for the Humanities, Digital Humanities Advancement grant program. 9 pp. *Funding Rate: 17%* (for the 2023 application period for DHA grants). Duration: 2023 – 2025
3. \$99,955 - "*Traditional Rural Lifeways, Sustainable Rural Futures: Historic and Contemporary Communities in the Bova region of southern Calabria, Italy, 1800 – 2021.*" PI: Meredith Chesson (Univ. Notre Dame), CoPI: **Isaac I. Ullah**. Collaborators: William Donaruma, Hamish Forbes, Giovani Iiriti, Ian Kuijt, Paula Lazrus, Kostalena Michelaki, Maria-Olimpia Squillachi. 2022 Notre Dame Faculty Research Support Program. Funding rate: unknown. Duration: 2022 – 2025

## EXTERNALLY FUNDED RESEARCH GRANTS, COLLABORATOR/SENIOR PERSONNEL

1. \$224,875 - *Large and Small Things Forgotten: Scale and Visibility in Epipaleolithic Cyprus and Neolithic Jordan*. PI's: E.B. Banning and S.T. Stewart. Collaborators: A. Simmons, B. Letham, C. Fulton, D.A. Macdonald, **I.I.T. Ullah**, K. Gibbs, K. Abu Jayyab, L.A. Maher. Insight grant from the Social Sciences and Humanities Research Council of Canada. Funding Rate: 40.7% (for the 2020 application year among insight grant submissions). Duration: 2020-2023. (changed to 2021-2024 due to COVID-19)
2. \$47,683 - *How and Why do Food Technological Systems Transform?* PI: K. Michelaki. CoI's: M. Peeples, S. Oas, C. Morehart, H. Eakin, J. Wetmore, M. Chesson, P. Lazrus, J. Robb, **I.I.T. Ullah**, and T. Braje. Arizona State University, School of Human Evolution and Social Change Interdisciplinary Research Grant Program. Duration: 2020-2021. (project canceled due to COVID-19)
3. \$142,779 - *Revealing Neolithic Landscapes in Cyprus and Jordan*. PI's: E.B. Banning and S.T. Stewart. Collaborators: A Hawkins, **I.I.T. Ullah**, K. Gibbs, M. Ramsey, S.A. Rich. Insight grant from the Social Sciences

and Humanities Research Council of Canada. Funding Rate: 28% (for the 2016-2017 application year among archaeology insight grant submissions). Duration: 2017-2020.

4. \$1,300,000 - *The Emergence of Coupled Natural and Human Landscapes in the Western Mediterranean*. PI's: C.M. Barton, S. Sarjoughian, A. Heimsath, M. Acevedo, J. Riel-Salvatore. Senior Personnel: E. Vivoni, J. Bernabeu, **I.I.T. Ullah**. Dynamics of Coupled Natural and Human Systems grant from the National Science Foundation. Funding Rate: 18% (for the 2013 application year among all BCS submissions in SBE). Duration: 2013-2018.
5. \$30,000 - *New Perspectives in Archaeology: The Socio-ecological Agent-based Modeling of the Early Bronze Age I of Arslantepe (Malatya)*. PI: B. Arian. Foreign Researchers: **I.I.T. Ullah**, and S. Bergin. Research grant from TUBITAK, The Scientific and Technological Research Council of Turkey, Research and Development Funding Program. Duration: 2014-2016.
6. \$282,000 - *Archaeological Survey and the Neolithic of the Levant*. PI's: E.B. Banning and S.T. Stewart. Collaborator: **I.I.T. Ullah**. Insight grant from the Social Sciences and Humanities Research Council of Canada. Funding Rate: 25.8% (for the 2012-2013 application year among archaeology insight grant submissions). Duration: 2013-2015.

#### SUBMITTED EXTERNALLY FUNDED RESEARCH GRANTS, PI OR CO-PI

4. \$50,000 - *Carving a good life from the mountainside: the generational reinvention of rural livelihoods in the Bovese uplands*. PI: Meredith Chesson. Co-Director: **Isaac I. Ullah**. National Geographic Society, Archaeology Grants Program. Enduring Impacts RFP. Submitted, 07/01/2025.

#### COMPETITIVE INTERNAL FUNDING OPPORTUNITIES

1. \$500 - *Water, Land, and Livelihood: Ranching in Anza-Borrego's Extreme Environments*. College of Arts and Letters Microgrant Program. Spring 2025.
2. \$1,440 + \$250 - *Automated Detection of Archaeological Sites from Satellite Imagery*. Undergraduate Research Office of the College of Arts and Letters Student Assistant award. Spring 2024
3. \$500 - *Automated Detection of Archaeological Sites from Satellite Imagery*. College of Arts and Letters Microgrant Program. Fall 2023.
4. *Theory and Method of Computational Modeling in Archaeology*. Sabbatical A (one semester at full pay). Spring 2023.
5. \$500 - *GIS publishing trends in Archaeology*. College of Arts and Letters Microgrant Program. Spring 2022
6. \$10,000 - *Late Holocene Human-Environmental Co-evolution in Southern Kazakhstan*. PI: **I.I.T. Ullah**. University Grants Program, San Diego State University. Funding Rate: 35.8% (for the 2016-2017 application year among all submissions), Duration: 2017 – 2018

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#### PROFESSIONAL SYMPOSIA ORGANIZED

1. 2025. *Interdisciplinary Approaches to Landscape Archaeology*. Society for American Archaeology 90<sup>th</sup> Annual Meeting. Denver, CO, April 23-27, 2025. Session Sponsored by: North American Chapter of Computer Applications and Quantitative Methods in Archaeology. Conveners: Giacomo Fontana, Filippo Brandolini, **Isaac I. Ullah**.
2. 2024. *Making Historical Archaeology Matter: Rethinking an Engaged Archaeology of Nineteenth- to Twenty-First-Century Rural Communities of Western Ireland and Southern Italy*. Society for American Archaeology Annual Meeting. April 17-21, 2024. New Orleans, LA. Convener: **Isaac I. Ullah**.

3. 2023. *Simulations for the past, simulations for the future*. 2023 Computer Applications in Archaeology Conference. April 3 – 6, 2023. Amsterdam, NL. Conveners: **Isaac I. Ullah**, Iza Romanowska, Doug Rocks-MacQueen
4. 2019. *Agro-pastoral Adaptations to Holocene Climate Change in the Greater Near East*. 84<sup>th</sup> Annual Meeting of the Society for American Archaeology. Albuquerque, NM. Conveners: Bulent Arikan and **Isaac I. Ullah**.
5. 2018. *Theory, method, data, and the anthropological archaeology of Mesoamerica: Papers in honor of Joseph W. Ball*. 83<sup>rd</sup> Annual Meeting of the Society for American Archaeology. Washington, DC. Conveners: **Isaac I. Ullah** and Geoffrey Braswell.
6. 2017. *Modeling Agro-Pastoralism in Eurasia*. 82<sup>nd</sup> Annual Meeting of the Society for American Archaeology. Vancouver, BC. Conveners: **Isaac I. Ullah** and Claudia C. Chang.
7. 2016. *Advances in Integration of Earth System Dynamics and Social System Models*. 2016 Fall Meeting of the American Geophysical Union in San Francisco, CA. Conveners: Kimberly G Rogers, **Isaac I. Ullah**, Albert J. Kettner, Mark D.A. Rounsevell.
8. 2012. *Socio-natural systems in pastoral and agro-pastoral societies: Archaeological investigations of pastoral landscapes*. 77<sup>th</sup> annual meeting of the Society of American Archaeology in Memphis, TN. Conveners: **Isaac I. Ullah** and Claudia C. Chang.

#### REFEREED PAPERS PRESENTED AT PROFESSIONAL CONFERENCES

1. **Ullah, I.I.T.** *GIS as a Hub for Archaeological Landscapes Research*. Society for American Archaeology 90<sup>th</sup> Annual Meeting. Denver, CO, April 23-27, 2025.
2. 2024. **Ullah, I.I.T.**, Chesson, M., Lazrus, P., Michelaki, K. *Climate change and rural livelihood in Calabria, Italy*. Society for American Archaeology Annual Meeting. April 17–21. New Orleans, LA.
3. 2024. Chesson, M., **Ullah, I.I.T.**, Lazrus, P., Michelaki, K., Iiriti, G. *Sustainable Futures in Southern Calabria: Vibrant Communities, Farming Heritage, and Loving the Rural Life*. Society for American Archaeology Annual Meeting. April 17–21. New Orleans, LA.
4. 2024. Carrer, F., **Ullah, I.I.T.**, Angelucci, D., Ribas, G.D. *Pastoralism and Landscape Sustainability: A Mediterranean Perspective*. Society for American Archaeology Annual Meeting. April 17–21. New Orleans, LA.
5. 2024. Mathwich, N., **Ullah, I.I.T.** *Missions, Herds, and Habitat: Analyzing Livestock Dynamics in the Desert Pimería Alta*. Society for American Archaeology Annual Meeting. April 17–21. New Orleans, LA.
6. 2023. **Ullah, I.I.T.**, *AgModel: An Agent-Based Model of the forager-farmer transition*. Symposium: “Simulations for the past, simulations for the future.” 2023 Computer Applications in Archaeology Conference. April 3 – 6, Amsterdam, NL.
7. 2023. Carrer, F. and **Ullah, I.I.T.**, *Model transposability: Challenges and implications of transitioning socioecological system models to new regions*. Symposium: “Simulations for the past, simulations for the future.” 2023 Computer Applications in Archaeology Conference. April 3 – 6, Amsterdam, NL.
8. 2023. Banning, E.B., Edwards, S., and **Ullah, I.I.T.**, *Survey Planning, Allocation, Costing and Evaluation (SPACE) Project: Developing a Tool to Help Archaeologists Conduct More Effective Surveys*. Symposium: “Open Analytical Workflows and Quantitative Data Integration in Archaeological Prospection.” 2023 Computer Applications in Archaeology Conference. April 3 – 6, Amsterdam, NL.
9. \*2023. Clow, Z., **Ullah, I.I.T.**, and Meling, J. *GIS Publishing Trends in Archaeology: How GIS Has Been Used from 1994 to 2021*. Poster presented at the 88<sup>th</sup> Annual Meeting of the Society for American Archaeology, March 29 – April 2, 2023, Portland, ON.



10. 2022. **Ullah, I.I.T.**, *Virtual sampling simulation experiments for training and planning for field-collection of microfuse samples*. Symposium: “New directions in microdebitage analysis.” 87<sup>th</sup> Society for American Archaeology Meeting. March 30 – April 3, 2022, Chicago, IL
11. \*2021. **Ullah, I.I.T.** and Benchekroun, S. *Preserving the Past for an Uncertain Future: Accessible, Low-Cost Methods for 3-D Data Creation, Processing, and Dissemination in Digital Cultural Heritage Preservation*. Symposium: “Online Legacies and Cultural Heritage.” Web3D ‘21: The 25th International Conference on 3D Web Technology. November 8 – 12, 2021, Online.
12. \*2021. **Ullah, I.I.T.**, Piel, D, Sakai, S., Chang, C., Tourtellotte, P. *A sediment granulometry approach to anthropogenic landscape impacts*. Poster presented at the 86<sup>th</sup> Society for American Archaeology Annual Meeting. April 15 – 19, 2021 (online meeting format).
13. \*2019. Garcia, Y, **Ullah, I.I.T.** *Computational Erosion Modeling of San Miguel Island: Preserving Archaeological Sites*. Conference paper presented at the 2019 Computing Applications in Archaeology Conference. Krakow, Poland, 2019.
14. \*2019. Garcia, Y, **Ullah, I.I.T.** *Using Open Source GIS Software to Address Archaeological Problems: Preserving Sites on San Miguel Island*. Poster presented at the 2019 American Association of Geographers annual meeting, Washington, DC.
15. 2018. Barton, C.M., **Ullah, I.I.T.**, Gauthier, N., Miller, N., Snitker, G., Esteban, I., Bernabeu, J., and Heimsath, A.. *'Digital Proxies' for Validating Models of Past Socio-Ecological Systems in the Mediterranean Landscape Dynamics Project*. Conference paper presented at the 2018 annual meeting of the European Archaeological Association, Barcelona, Spain.
16. 2018. Acevedo, M.F., Boyd, W., Sarjoughian, S., **Ullah, I.I.T.**, and Barton, C.M.. *Integrating socio-environmental models: vegetation, agriculture, and landform dynamics*. The 9<sup>th</sup> International Congress on Environmental Modelling and Software, Fort Collins, Colorado.
17. 2018. **Ullah, I.I.T.** *Water, erosion, and climate history in the San Pasquale Valley, Calabria, Italy*. The Political Logic of Mediterranean Landscapes: Crafting Communities and Sustainable Futures from the Ground Up, June 28-30, Rome, Italy.
18. \*2018. Chesson, M.S., **Ullah, I.I.T.**, Aimes, N., Forbes, N., Lazrus, P.K., Garcia, Y. Lane, I., Gauthier, N., Wolff, N.P.S., Robb, J.E., and Ruben, I. *Laborscapes and Archaeologies of Sustainability: An Early Technoscape of Commercial Farming in the San Pasquale Valley, Calabria, Italy from 1800 – 2018*. The Political Logic of Mediterranean Landscapes: Crafting Communities and Sustainable Futures from the Ground Up, June 28-30, Rome, Italy.
19. \*2018. **Ullah, I.I.T.**, Garcia, Y., Lazrus, P.K., Ames, N., and Chesson, M.S. *Historic Water Management Infrastructure in the San Pasquale Valley, Calabria, Italy*. Symposium: “A Mediterranean World, 6000 BC—AD 2000: Archaeology and History of Bova Marina, Italy.” 83<sup>rd</sup> Annual Meeting of the Society for American Archaeology, Washington, DC.
20. 2018. Chesson, M.S. , **Ullah, I.I.T.**, Ames, N., Forbes, H., and Lazrus, P.K.. *Full of Water, Full of life: Water, Sustainability and Built Heritage in the 19<sup>th</sup> to 21<sup>st</sup> centuries San Pasquale Valley, Calabria, Italy*. Symposium: “A Mediterranean World, 6000 BC—AD 2000: Archaeology and History of Bova Marina, Italy.” 83<sup>rd</sup> Annual Meeting of the Society for American Archaeology, Washington, DC.
21. 2018. **Ullah, I.I.T.** *Open source digital data collection for field sciences*. 2018 Southern California Linux Expo (SCaLE16x), Pasadena, CA.
22. 2018. **Ullah, I.I.T.** *Going paperless in Calabria: an open-source digital data collection workflow.*” Symposium “Going Paperless: The Digital Age of Archaeology.” 2018 Society for Historical Archaeology Conference, New Orleans, LA.

23. 2017. **Ullah, I.I.T.** *Coupled Human-Earth Systems Models and the “Digital Proxy Record:” Connecting the Human and Natural.* Community Surface Dynamics Modeling System Annual Meeting. “Modeling Coupled Earth and Human Systems - The Dynamic Duo.” Boulder, Colorado. May 23 -25th 2017.
24. 2017. Banning, E.B. and **Ullah, I.I.T.** *Percolation Theory and the Effectiveness of Adaptive Sampling in Subsurface Survey.* The Annual Meeting of the Society for American Archaeology, Vancouver, BC. March 27-April 2, 2017.
25. 2017. Banning, E.B., Hitching, P, Abu Jayyab, K., Rhodes, S, Yasui, E, and **Ullah I.I.T.** *Excavations at a Wadi Rabah Late Neolithic Site in Wadi Quseiba, Northern Jordan.* 2017 meeting of the Archaeological Institute of America, Toronto, ON.
26. 2016. **Ullah, I.I.T.**, *Traces of complexity: connecting model output with archaeological reality.* Symposium: “Human-Environmental Interactions in the Mediterranean Basin.” 81<sup>st</sup> Annual Meeting of the Society for American Archaeology, Orlando. FL. April 6–10, 2016.
27. 2016. **Ullah, I.I.T.**, *Modeling Human-Environment Interaction.* Modeling Socioecological Dynamics: Methods and Case Studies Workshop, Istanbul Technical University, Istanbul, Turkey. March 14–15, 2016.
28. 2016. **Ullah, I.I.T.**, *Developing the Mediterranean Landscape Dynamics Modeling Laboratory.* Modeling Socioecological Dynamics: Methods and Case Studies Workshop, Istanbul Technical University, Istanbul, Turkey. March 14–15, 2016.
29. 2016. Barton, L., and **Ullah, I.I.T.**, *Computer simulation and the origins of agriculture in East Asia.* Paper presented at the 7th Worldwide Conference of the Society for East Asian Archaeology, Boston, MA, June, 2016.
30. 2015. **Ullah, I.I.T.**, and Barton, C.M., *Complexity in space and time: spatio-temporal variability and scale in simulations of social-ecological systems.* Symposium: “Simulating Social Complexity to Understand the Archaeological Past.” 80<sup>th</sup> Annual Meeting of the Society for American Archaeology, San Francisco. CA. April 15–19, 2015.
31. 2014. Gibbs, K., Banning, E.B., **Ullah I.I.**, Hitchings, P., and Abu Jayyab, K. *Late Neolithic Excavations in Wadi Qusayba, Northern Jordan.* 2015 American Schools of Oriental Research Annual Meeting, San Diego, CA.
32. 2014. **Ullah I.I.** *Computer-based simulation of surface-processes, and digital reconstruction of paleoenvironment during the Early Bronze Age-I at Arslantepe–Malatya, Eastern Turkey.* Symposium: “Environmental Change: Data, Processes, and Integrated Modeling.” 20<sup>th</sup> Annual Meeting of the European Archaeological Association, Istanbul, Turkey. September 10–14, 2014.
33. 2014. **Ullah I.I.** *From a world of compasses, paper, and pencils to the digital era: how to integrate “pre-GPS” survey data into a modern research paradigm.* Symposium “Paleolithic Paradigms: Papers in Honor of Geoffrey Clark.” 79<sup>th</sup> Annual Meeting of the Society for American Archaeology, Austin, TX. April 23–27, 2014.
34. 2014. Banning, E.B., and **Ullah I.I.** *In Small Things Miscounted: Problems, Solutions and Opportunities of Scale in Microrefuse Analysis.* Symposium: “Multi-scalar Approaches to Archaeological Interpretation.” 79<sup>th</sup> Annual Meeting of the Society for American Archaeology, Austin, TX. April 23–27, 2014.
35. 2013. **Ullah, I.I.T.** and Barton, C.M., *Simulating “collapse”: A computational modeling approach to understanding adaptive reorganization in low-level socio-natural systems.* Symposium: “New Directions in Modeling Dynamics in Coupled Social-Natural Systems.” 78<sup>th</sup> annual meeting of the Society of American Archaeology, Honolulu, HI.
36. 2012. **Ullah, I.I.T.**, *Simulating the long-term effects of agropastoral landuse decisions: a computational modeling approach to the Prepottery/Pottery Neolithic transition in northern Jordan.* Symposium: “Socio-natural systems in pastoral and agro-pastoral societies: Archaeological investigations of pastoral landscapes.” 77<sup>th</sup> annual meeting of the Society of American Archaeology, Memphis, TN.
37. 2012. Bergin, S., **Ullah, I.I.T.**, Barton, C.M., and Gravel-Miguel, C., *Human-Environment Interactions in a Changing Environment: A Computational Model of Agropastoral Practices and Landscapes in Neolithic Spain.*

Symposium: “Socio-natural systems in pastoral and agro-pastoral societies: Archaeological investigations of pastoral landscapes.” 77<sup>th</sup> annual meeting of the Society of American Archaeology, Memphis, TN.

38. 2011. **Ullah, I.I.T.**, Barton, C.M., Bergin, S., and A. Miller. *Simpler is better: lessons from modeling coupled human and natural systems in the Mediterranean Landscape Dynamics Project*. Symposium “Process and Change in Prehistoric Socio-Natural Systems.” 76<sup>th</sup> annual meeting of the Society of American Archaeology, Sacramento, CA.
39. 2011. Bergin, S., **Ullah, I.I.T.**, Arian, B., Barton, C.M., Sarjoughian, H., and G. Mayer. *Simulating Neolithic Landscape Dynamics: A Coupled ABM-GIS Model of Agro-Pastoral Systems in Eastern Spain*. Symposium: “Process and Change in Prehistoric Socio-Natural Systems.” 76<sup>th</sup> annual meeting of the Society of American Archaeology, Sacramento, CA.
40. 2010. **Ullah, I.I.T.** A GIS method for assessing the zone of human-environmental impact around archaeological sites: a test case from the Late Neolithic of Wadi Ziqlâb, Jordan. 2010 Summer Assembly of the University Consortium for Geographic Information Science. Hilton Head Island, SC.
41. 2010. Barton, C. M., **Ullah, I.I.T.**, Mayer, G., Sarjoughian, H., Bergin, S., Miller, A., and H. Mitsova. *Coupled Models for Coupled Systems: Land-Use and Landscape Dynamics in the Mediterranean*. 2010 Annual Meeting of the Association of American Geographers. Washington, D.C.
42. 2010. Bergin, S., **Ullah, I.I.T.**, Barton, C.M., Mayer, G., and H. Sarjoughian. *Coupled ABM-GIS Modeling of Agro-Pastoral Systems in Eastern Spain*. 75<sup>th</sup> annual meeting of the Society of American Archaeology, St. Louis, MO.
43. 2010. **Ullah, I.I.T.** Assessing the accuracy of microrefuse sampling techniques. 75<sup>th</sup> annual meeting of the Society of American Archaeology, St. Louis, MO.
44. 2009. **Ullah I.I.** *Particles from the Past: A Diachronic Study of the Spatial Patterning of Microrefuse from Room Floors at Late Neolithic Tabaqat al-Bûma, Northern Jordan*. Household Archaeology in the Middle East and Beyond: Theory, Method and Practice Conference. Feb 19-21, Salt Lake City.
45. 2009. **Ullah, I.I.T.**, Mayer, G.R., Barton, C.M., Sarjoughian, H.S. *Ancient Mediterranean landscape dynamics: Hybrid agent and geospatial models as a new approach to socioecological simulation*. Symposium: “Parallel Worlds: Interdisciplinary Agent-Based Models of Socioecological Processes and Complexity.” 73<sup>rd</sup> Annual Meeting of the Society for American Archaeology, Vancouver, BC.
46. 2009. Bergin, S., **Ullah, I.I.T.**, and G. Mayer. *A Coupled ABM-GIS model of small-scale farming*. North American Association for Computational Social and Organizational Sciences Meeting, Tempe, AZ.
47. 2009. **Ullah I.I.** *Ancient Pastoralism and Landscape Change in South Central Jordan*. 74<sup>th</sup> Annual Meeting of the Society for American Archaeology, Atlanta, GA.
48. 2007. **Ullah, I.I.T.**, *Microarchaeology and the Use of Space at the Late Neolithic Farmstead of Tabaqat al-Bûma*. 10<sup>th</sup> International Conference on the History and Archaeology of Jordan, The George Washington University, Washington, DC.
49. 2007. **Ullah I.I.**, and Barton, C.M., *Alternative Futures of the Past: Modeling Neolithic Landuse and Its Consequences in the Ancient Mediterranean*. 72<sup>nd</sup> Annual Meeting of the Society for American Archaeology, Austin, TX.
50. 2006. DiMaggio, E.N., Arrowsmith, J.R., Barton, C.M., Sarjoughian, H.S., Fall, P., Falconer, S.E., and **Ullah, I.I.T.** *Geomorphic Mapping and Paleoterrain Generation for use in Modeling Holocene (8,000 – 1,500 yr) Agropastoral Landuse and Landscape Interactions in Southeast Spain*. 2006 American Geophysical Union annual meeting, San Francisco, CA.
51. 2006. Barton, C.M. and **Ullah, I.I.T.** *Modeling Impacts of Landuse Practices on Mediterranean Landscapes*. 2006 Archaeological Sciences of the Americas Symposium. University of Arizona, Tucson, AZ.

52. 2006. **Ullah, I.I.T.** *GIS and Pastoralists in Beidha, Southern Jordan: Predictive Modeling of Campsite Location*. 2006 Annual Conference of WECSOR/ASOR Pacific Southwest Region, Claremont Graduate University, Claremont, CA.
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## OTHER SIGNIFICANT RESEARCH ROLES

1. *Bova Marina Archaeological Research Project*. Position: Co-director of the Historic Households Survey. Previous funding: National Endowment for the Humanities, Promotion of Humanities Research grant. PI's: M. Chesson and J. Robb. Funded amount: \$362,533. Duration: 2015–2018. Acceptance rate ~25% (BCS overall, FY 2020)

## PARTICIPATION IN PROFESSIONAL ASSOCIATIONS

1. Society for American Archaeology (Digital Data Interest Group, Open Science Interest Group, Geoarchaeology Interest Group, Taskforce on Abstract Submission)
2. Open Modeling Foundation (Standards Working Group)
3. Community Surface Dynamics Modeling System (Human-Dimensions Working Group)
4. CoMSES: Network for Computational Modeling in Social and Ecological Sciences
5. NASSA: Network for Agent-based modelling of Socio-ecological Systems in Archaeology
6. CHANS-Net: International Network of Research on Coupled Human and Natural Systems

## NEWS ARTICLES, INTERVIEWS, AND BOOK REVIEWS HIGHLIGHTING MY RESEARCH, TEACHING, AND SERVICE

1. 2025 “History Center Holds First Community Archiving Day.” Lookout Avenue, the newsletter of the La Mesa Historical Society. Summer 2025.
2. 2025 “I palmenti rupestri della Calabria greca: il contributo della Professoressa Meredith.” *il Quotidiano d’Italia*. June 12, 2025.
3. 2024 “Understanding extinction dynamics can help inform modern and future conservation strategies.” *Free Science News*. May 1, 2024
4. 2024 “San Diego State anthropology professor builds an extinction calculator.” *KPBS News, San Diego*. April 15, 2024
5. 2024 “Computational model created to predict animal extinctions.” *Earth.com*. April 02, 2024
6. 2024 “Computational Models are Shedding Light on Future Animal Extinction.” *One Green Planet*. April, 2024
7. 2024 “Anthropologists create computational model to predict likelihood of future animal extinctions.” *Phys.org*. March 27, 2024.
8. 2024 “Looking to the past to prevent future extinction.” *San Diego State University News*. March 26, 2024.
9. 2023 “SDSU project aimed at preserving local community history with a cellphone” *ABC 10 News, San Diego*. October 19, 2023
10. 2023 “Community History, Space Guacamole, Art in Prison” SDSU Minds in Motion. September 26, 2023.
11. 2023 “NEW Grant For New Empowerment Tool That Helps Communities Document Heritage Of Historic Buildings” SDSU College of Arts and Letters News. September 22, 2023
12. 2022 “New Video Tutorials for GRASS GIS 8” GRASS GIS News. March 3, 2022.

13. 2020 “*La Mesa Community Art Documentation Project*” Lookout Avenue. Newsletter of the La Mesa Historical Society, Fall, 2020.
14. 2019 “*President’s Message: Spring-ing forward into Summer at LMHS.*” Lookout Avenue. Newsletter of the La Mesa Historical Society, Fall, 2020.
15. 2019 “*La Mesa taking another look at historical buildings.*” San Diego Union Tribune. September 12, 2019.
16. 2018 Review of “*The Consequences of Human Land-Use Strategies During the PPNB-LN Transition: A Simulation Modeling Approach.*” Alan H. Simmons, Journal of Anthropological Research, 74(2), p276-278.
17. 2017 “*Anthropology students use primitive tools funded by Student Success Fee.*” Daily Aztec. February 27, 2017.
18. 2016 “*Archaeologist shapes the future.*” Daily Aztec. September 28, 2016.
19. 2016 “*Study looks at long-term impact of farming.*” Gizmag. February 1, 2016.
20. 2016 “*Long-term study shows impact of humans on land.*” Science Daily News. January 27, 2016.
21. 2015 “*Analyzing the Neolithic Revolution.*” Archaeology Magazine, Online. July 24, 2015.
22. 2015 “*New Research Reveals Clues of Neolithic Revolution.*” New Historian. July 22, 2015.
23. 2015 “*Archaeologists use new methods to explore move from hunting, gathering to farming.*” Phys.org. July 21, 2015
24. 2010 “*Archaeology Could Benefit from Computer Modeling.*” Science 2.0. May 10, 2010.
25. 2010 “*Living in the Past and Looking Toward the Future. Archaeologists develop models to explain agricultural history, future.*” Chris Gorski, Inside Science, July 29, 2010.



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## TEACHING EFFECTIVENESS

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### Chair, SDSU MA Students

1. 2024-present Gabriela Cendejas. Anthropology. Expected graduation: Spring 2026.
2. 2022-present Hughes, Geoffrey . Anthropology. Thesis: *“Designing Digital Recordation Tools: Providing A Suite Of Comprehensive Tools To Work On Mobile Platforms For An Engaged Public”* Expected graduation: Fall 2024.
3. 2020-2024 Piel, Daniel. Anthropology. Expected graduation: Spring 2025.
4. 2023-2024 Bruk, Seth. Anthropology. Graduated: Summer 2024. Thesis: *“Disentangling Lithic Raw Material Classification in Legacy Data.”*
5. 2017-2023 Garcia, Yesenia. Anthropology. Graduated: Spring 2023. Thesis: *“San Miguel Island: Natural laboratory for geospatial erosion modeling of archaeological sites.”*
6. 2018-2022 Benchekroun, Sarah. Anthropology. Graduated: Summer 2022. Thesis: *“Preserving the past for an uncertain future: Low-cost open-source methods for 3-D digital documentation in applied cultural heritage preservation.”*
7. 2018-2021 Davis, Katherine. Anthropology. ABT, 2021.

### Committee Member, MA Students

1. 2020-present Galena, Natalia. Anthropology. Expected graduation: Fall 2026
2. 2024-2025 Krogh, Kathleen. Anthropology. Graduated: Summer 2025. Thesis: *Using a GIS to Understand the Spatial Distribution of the Artifact Assemblage at the Nathan Harrison Historical Archaeology Site.*
3. 2023-2024 Farnsworth, Shannon. Anthropology. Graduated: Fall 2024. Thesis: *“Historical Murals as Artifacts.”*
4. 2023-2024 Jacobites, Christine. History. Graduated: Summer, 2024. Thesis: *“The Power in Sun Rays: An Examination of Akhenaten’s Religious Revolution.”*
5. 2022-2023 Nelson-Maney, Shannon. Anthropology. Graduated: Fall 2023. Thesis: *“Coral Wars: Exploring the Ethics and Perceptions of Coral Modification”*
6. 2021-2022 Hoke, Michael. Anthropology. Graduated: Spring 2022. Thesis: *“Guns, Sundown Towns, and The Multi-Ethnic Old West: Nathan Harrison and Firearm Ownership in Late 19th and Early 20th Century San Diego County.”*
7. 2017-2018 Phukan, Anjali. Anthropology. Graduated: Spring 2018. Thesis: *“Shorelines in the Desert: Archaeological Survey and Assessment of Fish Traps in the Colorado Desert, Ocotillo Wells State Vehicular Recreation Area.”*
8. 2017-2018 McCain, Joseph. Anthropology. Graduated: Spring 2018. Thesis: *“Archaeological Investigations of the Coronados Islands, Baja California, Mexico.”*
9. 2016-2017 Hunter, Chelsea. Anthropology. Graduation year: Spring 2017. Thesis: *“Waves of change: politics, ontologies, and the struggle for acceptable marine management in Moorea, French Polynesia”*

### Committee Member, PhD Students (\* denotes SDSU JDP students)

1. 2024-present Miriam C. Kopels. Anthropology, University of Nevada, Las Vegas.
2. 2017-2021 Johnson, Phyllis. Anthropology, Vanderbilt University. Graduated, Spring 2021.

3. \*2019-2020 Kelly, Joshua. JDP in Geophysics, San Diego State University/UCSD Scripps Institution of Oceanography. Graduated, Spring 2020.
4. 2016-2019 Ng, Chuenyan. Anthropology, University of Pittsburgh. Graduated Spring 2019.

### **SDSU ANTH 499 Special Topics Seminar, Undergraduate Students**

1. 2024 Spring Kylie Coughlin and Ace Boyle. Topic: “*AI-assisted automated detection of archaeological sites*”
2. 2020 Spring Lovell, Kellen. Topic: “*Anthropogenic sediment studies at Santa Margarita Ecological Reserve*”
3. 2019 Fall Watson, Devin. Topic: “*Ethnomusicology.*” (topic was supervised by Prof. Yale Strom)
4. 2017 Spring Haeckl, Brianna. Topic: “*Future Directions in Computational Archaeology.*”

### **SDSU ANTH 798 Special Topics Seminar, Graduate Students**

1. 2023 Fall Hughes, Geoffery. Topic: “*History of Architecture.*”
2. 2021 Spring Piel, Daniel. Topic: “*Sediment Granulometry Analysis.*”
3. 2019 Fall Benchekroun, Sarah. Topic: “*3D Methods for Documenting Historical Monuments.*”

### **SDSU ANTH 495 and ANTH 795 Internships supervised**

1. 2024 Spring La Mesa History Center, Digitization Project. Undergraduate students: Marisol Lomeli, Ethan Guernsey, Noel Lawrence
2. 2024 Spring California State Parks, Southern Service Center Archaeological Internships. Undergraduate Students: Mexalina Carrillo, Mandie Carter, Val Lim, Daniel Lugo
3. 2023 Fall San Diego Archaeology Center. Undergraduate student: Marina Paris
4. 2023 Fall La Mesa History Center, Digitization Project. Undergraduate student: Marisol Lomeli
5. 2023 Spring La Mesa History Center, Digitization Project. Graduate Student: Geoffrey Hughes. Undergraduate Students: Jacqueline Lyle, Danielle Schmidt
6. 2022 Fall La Mesa History Center, Digitization Project. Undergraduate Student: Fallon McDaniel
7. 2022 Spring La Mesa History Center Historic Properties Inventory Update. Undergraduate student: Peter Gambino
8. 2022 Spring San Diego Archaeology Center. Undergraduate student: Olivia Benchetrit
9. 2020 Spring La Mesa History Center Historic Properties Inventory Update. Undergraduate students: Castro, Karyme; Gerstein, Samuel; Kennedy, Rebekah; Cooper, Doug
10. 2020 Spring San Diego Archaeology Center. Undergraduate student: Lovell, Kellen.
11. 2020 Spring CalTrans Cultural Resources Management. Graduate students: Benchekroun, Sarah; Galena, Natalia
12. 2020 Spring RedTail Environmental. Undergraduate student: White, Gretchen.
13. 2019 Fall La Mesa History Center Historic Properties Inventory Update. Undergraduate students: Martinez, Alex; Delmonte, Bianca.
14. 2019 Fall Museum of Man, Material Culture Conservation. Undergraduate students: Fogelberg, Lauren
15. 2019 Spring La Mesa History Center Historic Properties Inventory Update. Graduate students: Davis, Katherine.
16. 2019 Spring California State Parks, Liberty Station, Cultural Resources Management. Undergraduate students: Hughes, Geoffery.

17. 2019 Spring Museum of Man, Material Culture Conservation. Undergraduate students: Wiley, Briana.
18. 2018 Fall Cultural Resources Management, Meridian Archaeological, Inc. Undergraduate students: Davis-Mullens, Eduvijes.
19. 2018 Spring SDSU Computational Archaeology Lab. Undergraduate students: Brown, Meagan.
20. 2018 Spring Library Science Internship, The San Diego Archaeological Center. Undergraduate students: Stelpflug, Sarah

### **SDSU Student Research Symposium, Posters and Presentations Supervised**

1. 2024 Coghlin, Kylie and Boyle, Ace. Anthropology, undergraduate students. Poster: “*Automated Detection of Archaeological Sites from Satellite Imagery.*”
2. 2020 Koepels, Miriam. Anthropology, graduate student. Poster: “*A Model Based Approach to Human Impact and Extinction.*”
3. 2020 Lovell, Kellen. Anthropology, undergraduate student. Poster: “*Spanish land-use methods on California ecosystems in the Mission and early post-Mission periods.*”
4. 2019 Garcia, Yesenia. Anthropology, graduate student. Oral Presentation: “*Computational Erosion Modeling of Archaeological Sites on San Miguel Island.*”
5. 2018 Garcia, Yesenia. Anthropology, graduate student. Poster: “*Quantifying a Hundred Years of Landscape Change in the San Pasquale Valley, Calabria, Italy.*”
6. 2018 Navarro, Salvador. Anthropology, undergraduate student. Poster: “*The Power of the Earth: Iron Age Burial Mounds and Territoriality in Southeastern Kazakhstan.*”

### **Student Organizations Supervised**

1. 2022 – present Association of Anthropology Students

### **Participation in Teaching Training or Teaching Conferences**

1. Fall 2024 SDSU Academic Applications of AI micro-credential program. Credential earned 09/12/2024.
2. Summer 2020 SDSU Flexible Course Design Summer Institute
3. August, 2016 SDSU CTL “Syllabus workshop.”
4. October, 2016 SDSU CTL “Relevant, reflective, transparent: Creating student-centered assessments.”

### **Teaching and Mentoring Awards**

1. Spring 2018 “Most Influential Faculty,” Anthropology.

### **Curriculum Development and Teaching Innovations**

1. Fall 2024 Lead in developing and submitting a new Anthropology core MA seminar: ANTH 700 “Anthropological Approaches to the Human Experience.”
2. AY 23/24 Faculty mentor for funded CAL UROC undergraduate research project “Automated Detection of Archaeological Sites from Satellite Imagery” (CAL-MUSE program pilot season)
3. Fall 2023 Faculty Facilitator for Automated Detection of Archaeological Sites from Satellite Imagery Workshop in collaboration with the Association of Anthropology Students
4. Fall 2023 Faculty Facilitator for Flintknapping Workshop in collaboration with the Association of Anthropology Students

5. Fall 2023 Submission of major course redesign proposal for ANTH 395, now as “Orientation and Professionalization for Anthropology Majors.”
6. Fall 2022 Development of 12 new video tutorials for ANTH 562 “Computational Archaeology” and dissemination to general public via GRASS GIS development team.
7. Su/Fa 2022 Development of standardized laboratory booklet for ANTH 302 “Principles of Archaeology.”
8. 2021-2022 CSU Faculty-Led Curricular Redesign for Student Achievement program – Department Project Lead for the redesign of ANTH 302 “Principles of Archaeology” with a major course redesign proposal and restructuring of BA program requirements.
9. Fall 2021 Submission of new course proposal for ANTH 395 “Introduction to the Anthropology Major.”
10. Spring 2020 Development of 11 new video tutorials for ANTH 562 “Computational Archaeology”
11. Spring 2020 Participant in the Canvas LMS pilot program for ANTH 302 “Principles of Archaeology”
12. Fall 2028 Submission of new course proposal for ANTH 563 “Anthropogenic Landscapes”
13. Spring 2018 Faculty facilitator for “Experimental Archaeology Workshop” in collaboration with the Association of Anthropology Students
14. Spring 2018 Development of 11 new video tutorials for ANTH 583 “GIS and Imagery Analysis.”
15. Spring 2018 Development of excursion to Old Mission Dam in Mission Trails Regional Park for ANTH 583, “Anthropogenic Landscapes.”
16. Spring 2018 Creation of 10 laboratory practicums for ANTH 583 “Anthropogenic Landscapes.”
17. Spring 2018 New Course Syllabus for ANTH 583 “Anthropogenic Landscapes.”
18. Fall 2017 Submission of new course proposal for ANTH 562 “Computational Archaeology”
19. Fall 2017 Submission of course modification for ANTH 302 “Principles of Archaeology”
20. Spring 2017 SDSU Sage Program collaboration for ANTH 583 “GIS and Imagery Analysis.”
21. Spring 2017 Development of 16 video tutorials for ANTH 583 “GIS and Imagery Analysis.”
22. Spring 2017 New Course Syllabus for ANTH 583 “GIS and Imagery Analysis.”
23. Spring 2017 “How to read scholarly writing” Writing guide for my upper-division course.
24. 2016-2017 Establishment of the Computational Archaeology Lab, HT 62/66.
25. 2016-2017 Development of 12 weekly laboratory assignments, “ANTH 302, Principles of Archaeology.”
26. Fall 2016 Faculty facilitator for “Experimental Archaeology Workshop” funded by Student Success Fee.
27. Fall 2016 Redesigned Course Syllabus for ANTH 349: Roots of Civilizations

## SERVICE

### Service Awards

1. Spring 2022 San Diego State University, College of Arts and Letters, “Excellence in Service Award”

### Service for the Department

1. 2024-present Peer Review Committee (Chair)
2. 2023-2024 Scholarship Committee
3. 2018 – present Undergraduate Anthropology Major Adviser
4. 2016 – present Curriculum Committee (Chair: 20/21; 24/25)
5. 2019 – 2021 RTP Committee
6. 2019 – 2020 Professional Leaves Committee
7. 2018 – 2021 Peer Review Committee
8. 2018 – 2019 Chair, Search Committee for Assistant Professor in the Archaeology of North America.
9. 2017 – 2019 Scholarship Committee

### Service for the College

1. 2019 – 2024 Member, College of Arts and Letters Research Committee
2. 2023 – 2024 Faculty Reviewer. “Splice: The Journal of Undergraduate Scholarship at SDSU College of Arts and Letters”
3. 2023 Presentation in the CAL Office for Research and Innovation Workshop, “Internal Funding Opportunities at SDSU.” 10/20/2023
4. 2022 Presentation in the CAL Office for Research and Innovation Workshop, “Internal Funding Opportunities & Research Advancement Support Opportunities.” 10/27/2022
5. 2019 Presentation in the CAL RTP Workshop. 09/06/2019

### Service for the University

1. 2016 – present Member, Center for Climate Change and Sustainability Studies (C2S2) Research Cluster.
2. 2021—present Member, Community Climate Action Network (CCAN)
3. 2024 Judge, S3 Symposium.
4. 2022 Judge, Student Research Symposium.
5. 2018 Judge, Student Research Symposium.
6. 2017 Faculty participant, SDSU Sage Project, GIS/Asset Mapping for the City of Lemon Grove, ANTH 583 class.
7. 2017 Judge, Student Research Symposium.

### Service for the Profession

1. 2025-present *Advances in Archaeological Practice*. Editorial Board Member.
2. 2025-present *Current Anthropology*. Editorial Board Member.



3. 2025-present *Society for American Archaeology*. Member, Geoarchaeology Scholarships Review Committee.
4. 2024 – present *Journal of Computer Applications in Archaeology*. Guest editor, Special issue title: “Advances in modelling past human ecosystems”
5. 2022 – present *Open Modeling Foundation*: Member of Standards Working Group, and Representative of SDSU on the Membership Council.
6. 2021 – 2024 *Current Anthropology*. Corresponding Editor.
7. 2014 – present *Community Surface Dynamics Modeling System*. Member of Human Dimensions Focus Research Group.
8. 2017 – 2023 *Community for Modeling Agro-Pastoralism in Eurasia* (cmaple.org). Chief organizer.
9. 2021 – 2022 *Society for American Archaeology*. Member, Taskforce on Abstract Review.
10. 2020 External Reviewer, Tenure/Promotion Case. Department of Anthropology, University of Colorado Colorado Springs.
11. 2017 – 2019 *Frontiers in Digital Humanities: Digital Archaeology*. Associate Editor.
12. 2015 – 2017 *Frontiers in Digital Humanities: Digital Archaeology*. Review Editor

### REVIEWER, ACADEMIC JOURNALS:

*Advances in Archaeological Practice; Agricultural Systems; Anthropocene; Archaeological Research in Asia; Computation; Frontiers in Humanities: Digital Archaeology; Journal of Anthropological Archaeology; Journal of Archaeological Sciences; Journal of Open Archaeological Data; Nature Human Behavior; Open Archaeology; PLOS ONE; Southeast Archaeological Review; The Holocene; Journal of Archaeological Research, Peer Communities in Archaeology; Journal of Computer Applications in Archaeology*

### REVIEWER, EDITED VOLUMES:

*Mediterranean Resilience - Collapse and Adaptation in Antique Maritime Societies*. G. Gambas, T. Levy, A. Yasur-Landau, Eds.

### REVIEWER, GRANTING AGENCIES:

*National Science Foundation, Social and Behavioral Sciences division.*

### PROFESSIONAL WORKSHOPS ORGANIZED

1. 2015 *Open Source Geospatial Tools for Anthropologists*. (4 sessions, 4 hours each). Invited workshop given at the University of Notre Dame, Department of Anthropology, December 1–4, 2015. Co-organized with M. Sisk of UND Library.
2. 2009 *Paleolandscape Reconstruction and Ancient Human Landuse: A GIS Workshop*. (2 sessions, 8 hours each). Invited workshop given at the University of Toronto Archaeology Center.
3. 2006 *GRASS GIS for Anthropologists*. SHESC Graduate Workshop Series. Fall term, 2006. (2 sessions, 2 hours each). Workshop given at Arizona State University.

## Service for the Community

### COMMUNITY OUTREACH

1. 2019 – current and La Director. La Mesa Historic Inventory Survey Internships. In partnership with the City of La Mesa and La Mesa Historical Society
2. 2020 – 2021 Director, La Mesa Public Art Documentation Project. In partnership with the La Mesa Historical Society.
3. 2018 – 2021 Commissioner. City of La Mesa, Historic Preservation Commission.

### INVITED PUBLIC TALKS AND PANEL DISCUSSIONS

1. 2023 *Save Soil Panel: Soil in San Diego & Beyond*. Save Soil SDSU, Scripps Cottage.
2. 2018 *Computational Modeling, Archaeology, and the Anthropocene*. Vanderbilt University, Center for Digital Humanities.
3. 2018 *Connecting the Human and Natural: Coupled Human-Earth Systems Models and the Digital Proxy Record*. Scripps Institute of Oceanography, Scripps Center for Marine Archaeology (SCMA) workshop.
4. 2016 *Coupled Human-Natural System Modeling: Connecting Simulation Output to the Real World*. San Diego State University, Center for Climate and Sustainability monthly talks.
5. 2013 *Simulating the consequences of early farming strategies: a computational modeling approach to understanding long-term socio-ecological dynamics in low-level agropastoral systems*. University of Pittsburgh, Department of Anthropology colloquium series.
6. 2011 *The Neolithic period in Jordan: Daily life in early farming villages*. Mesa Community College Cultural Science brown bag series.