

# Rudolf Cesaretti

Curriculum Vitae  
January, 2025

## PERSONAL DATA

Ph.D Student, Archaeology  
School of Human Evolution & Social Change  
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## EDUCATION

**Ph.D., Archaeology (expected, 2025)**  
Arizona State University, Tempe, Arizona (05/16 – Present)

**MA, Archaeology, 2016**  
Arizona State University, Tempe, Arizona (08/14 – 05/16)

**BA, Anthropology and History (double), 2012**  
Truman State University, Kirksville, Missouri (8/08 – 8/12)

## PUBLICATIONS

- n.d. **Cesaretti, Rudolf.** Re-Evaluating Population Estimation: An Analogue-Based Method for Modeling Patterned Variation in Population Density (MA paper, draft available upon request).
- In Press **Cesaretti, Rudolf.** “‘Ground-Truthing’ *Codex Xolotl*: New Implications for Old Problems in Archaeology and Historiography.” In J. Offner (Ed.), *Codex Xolotl: New Approaches*
- 2024 Blumenfeld, Dean, **Rudolf Cesaretti**, Anne Sherfield, Angela Huster, Timothy Dennehy, José Lobo, and Michael E. Smith. “Urban Structure, Spatial Equilibrium and Social Inequality at Ancient Teotihuacan” (Article submitted and under review at the *Journal of Anthropological Archaeology*).
- 2020 **Cesaretti, Rudolf**, Jose Lobo, Luis M. A. Bettencourt, and Michael E. Smith. Increasing Returns to Scale in the Towns of Early Tudor England. *Historical Methods: A Journal of Quantitative and Interdisciplinary History*, 53(3): 147-65.
- 2019 Chase, Adrian S.Z. and **Rudolf Cesaretti**. Diversity in ancient Maya water management strategies and landscapes at Caracol, Belize, and Tikal, Guatemala. *WIREs Water*, 6(2): e1332.
- 2018 Turchin, Peter, Thomas Currie, ... **Cesaretti, Rudolf**, ... et al. Quantitative historical analysis uncovers a single dimension of complexity that structures

global variation in human social organization. *Proceedings of the National Academy of Sciences*, 115(2), E144-E151.

- 2016 **Cesaretti, Rudolf**, Jose Lobo, Luis M. A. Bettencourt, Scott G. Ortman, and Michael E. Smith. (2016). Population-Area Relationship for Medieval European Cities. *PLoS one*, 11(10), e0162678.
- 2015 Currie, Thomas E; Bogaard, Amy; **Cesaretti, Rudolf**; Edwards, Neil; Francois, Pieter; Holden, Phillip; et al. Agricultural productivity in past societies: Toward an empirically informed model for testing cultural evolutionary hypotheses. *Cliodynamics: The Journal of Quantitative History and Cultural Evolution*, 6(1).

## FIELDWORK REPORTS

- 2019 **Rudolf Cesaretti**, Dean Blumenfeld, Eunice Villaseñor-Iribe, y Christopher T. Morehart. “Excavaciones horizontales domesticas de Operación 11” In *Proyecto de Ecología Histórica del Norte de la Cuenca de México: Informe de la Temporada de Campo 2018*, edited by Christopher Morehart. Report on file Instituto Nacional de Antropología e Historia, Mexico, CDMX.
- 2019 **Rudolf Cesaretti**, Megan Parker, Edgar Alarcón Tinajero, Dean Blumenfeld and Christopher T. Morehart. “Excavaciones horizontales domesticas de Operación 8 (FBD)” In *Proyecto de Ecología Histórica del Norte de la Cuenca de México: Informe de la Temporada de Campo 2018*, edited by Christopher Morehart. Report on file Instituto Nacional de Antropología e Historia, Mexico, CDMX.
- 2018 **Rudolf Cesaretti**, Dean Blumenfeld, and Christopher Morehart. “La Investigación de la Operación 6: Excavaciones Domésticas” In *Proyecto de Ecología Histórica del Norte de la Cuenca de México: Informe de la Temporada de Campo 2017*, edited by Christopher Morehart. Report on file Instituto Nacional de Antropología e Historia, Mexico, CDMX.
- 2018 Christopher Morehart, **Rudolf Cesaretti**, Dean Blumenfeld, Edgar Alarcon, and Megan Parker. “La Continuación de las Investigaciones en la Operación 5: Grupo Cívico-Ceremonial” In *Proyecto de Ecología Histórica del Norte de la Cuenca de México: Informe de la Temporada de Campo 2017*, edited by Christopher Morehart. Report on file Instituto Nacional de Antropología e Historia, Mexico, CDMX.
- 2017 **Rudolf Cesaretti**, Nathan Parrott, Peter Vesely, Maria Garcia-Velasco, Sofia Pacheco-Fores, and Christopher Morehart. “Operación 1: Excavación de Trincheras en el Muro Perimetral” In *Proyecto de Ecología Histórica del Norte de la Cuenca de México: Informe de la Temporada de Campo 2016*, edited by Christopher Morehart. Report on file Instituto Nacional de Antropología e Historia, Mexico, CDMX.
- 2017 **Rudolf Cesaretti**. “Operación 3: Rasgos Circulares” In *Proyecto de Ecología Histórica del Norte de la Cuenca de México: Informe de la Temporada de Campo 2016*, edited by Christopher Morehart. Report on file Instituto Nacional de Antropología e Historia, Mexico, CDMX.
- 2017 **Rudolf Cesaretti**, Nathan Parrott, Peter Vesely, y Christopher Morehart. “Operación 4: Pozos de Sondeo.” In *Proyecto de Ecología Histórica del Norte de la Cuenca de México: Informe de la Temporada de Campo 2016*, edited by

- Christopher Morehart. Report on file Instituto Nacional de Antropología e Historia, Mexico, CDMX.
- 2017 **Rudolf Cesaretti**, Andrés Mejía-Ramon, and Christopher T. Morehart. “Operación 5-A (Mog-16-5-A): Resultados Preliminares de Excavaciones Horizontales Iniciales en los Rasgos H y J.” In *Proyecto de Ecología Histórica del Norte de la Cuenca de México: Informe de la Temporada de Campo 2016*, edited by Christopher Morehart. Report on file Instituto Nacional de Antropología e Historia, Mexico, CDMX.
- 2017 Christopher T. Morehart, **Rudolf Cesaretti**, and Antonio Lorenzini. “Operación 2: Excavaciones en la Reserva 1.” In *Proyecto de Ecología Histórica del Norte de la Cuenca de México: Informe de la Temporada de Campo 2016*, edited by Christopher Morehart. Report on file Instituto Nacional de Antropología e Historia, Mexico, CDMX.
- 2016 Caseldine, Christopher, Mechell Frazier, María García, Sofía Pacheco-Fores, **Rudolf Cesaretti**, Christopher Schwartz, and Christopher T. Morehart. “Protocolo para el mapeo con Estación Total en Los Mogotes.” In *Proyecto de Ecología Histórica del Norte de la Cuenca de México: Informe de la Temporada de Campo 2015*, edited by Christopher Morehart. Report on file Instituto Nacional de Antropología e Historia, Mexico, DF.
- 2016 Christopher T. Morehart, **Rudolf Cesaretti**, and Christopher Schwartz. “Análisis Preliminar de Artefactos de Obsidiana y Piedra Mellada de las Recolecciones de Superficie en Los Mogotes.” In *Proyecto de Ecología Histórica del Norte de la Cuenca de México: Informe de la Temporada de Campo 2015*, edited by Christopher Morehart. Report on file Instituto Nacional de Antropología e Historia, Mexico, DF.

## RESEARCH POSITIONS

- 2024 - 2025 Research Associate, ASU Teotihuacan Research Laboratory
- 2022 Contract Data Scientist, SHESC, ASU Settlement Persistence Working Group
- 2015 - 2018 Research Assistant, ASU-SFI IHOPE Maya Modeling Initiative
- 2014 - 2015 Research Assistant, ASU-SFI Urban Scaling Working Group
- 2013 - 2014 Research Assistant, Evolution Institute and Oxford University Seshat Database of Global History

## TEACHING AND COUNSELLING APPOINTMENTS

- 2018 - 2022 **Teaching Assistant**, School of Human Evolution and Social Change, Arizona State University, Tempe, Arizona. Subjects taught:
- Intro to Archaeology
  - Geoarchaeology
  - Economic Anthropology
  - New World Prehistory

- Old World Prehistory
- Immigration and Ethnic Relations in the U.S.
- Poverty and Global Health

- 2019      **Archaeological Field School Instructor**, Escuela de Campo de Arqueología de Los Mogotes, Universidad Nacional Autónoma de México, directed by Prof. Abigail Meza Peñaloza (UNAM) and Prof. Christopher Morehart (ASU).
- 2011 - 2012      **Teaching Assistant**, Sociology and Anthropology Department, Truman State University, Kirksville, Missouri. Courses taught:
- SOAN 191: Anthropological Inquiry (Fall 2011)
  - SOAN 253: Comparative Cultures (Spring 2012)
- 2011      **College Access Counsellor** – Truman BULLDOG College Access Program, Adair County R-I School District; Truman State University, Kirksville, Missouri.

## ARCHAEOLOGICAL FIELDWORK

- 2016 - 2019      **Field Director**, Northern Basin of Mexico Historical Ecology Project (NBMHEP), Estado de México, México, directed by Christopher Morehart (ASU) and Abigail Meza Peñaloza (UNAM). Managed test pit excavations, horizontal excavations of domestic and civic-ceremonial features, and trench excavations of reservoirs and defensive walls.
- 2015      **Archaeologist**, Northern Basin of Mexico Historical Ecology Project (NBMHEP), Estado de México, México, directed by Christopher Morehart (ASU) and Abigail Meza Peñaloza (UNAM). Conducted regional field survey, intensive site survey, and site mapping.
- 2015      **Field School Student**, Belize Valley Archaeological Reconnaissance Project (BVAR), Cayo District, Belize, directed by Jaime Awe (NAU) and Julie Hoggarth (Baylor). Excavated at Cahal Pech site core and at two rural house groups in the hinterland of Cahal Pech for the dissertation research of Claire Ebert (Penn State).

## PRESENTATIONS AND POSTERS

- 2021      *Ground-Truthing Codex Xolotl: Highlighting the Potential of Renewed Collaboration between Ethnohistorians and Archaeologists*. Invited presentation at the 2021 Northeastern Group of Nahuatl Scholars Meeting (held remotely due to COVID-19).
- 2021      *Analysis and Implications of Post-Depositional Bias in the Basin of Mexico (BOM) Surveys: A Preliminary Case Study of the Texcoco Survey Region*. Poster presented at the 2018 Society for American in Archaeology (SAA) international conference (held remotely due to COVID-19).
- 2019      *The Aztec Division of Labor: An Analysis of the Matrícula de Huexotzinco*. Presentation at the 2019 Southwest Mesoamerican Conference regional conference in Flagstaff, AZ.

- 2019 (with Christopher Morehart, Christopher Morehart, Angela Huster, Dean Blumenfeld, and Megan Parker). *Between Two Empires: Conflict and Community during the Epiclassic Period in the Northern Basin of Mexico*. Invited Presentation at the 2019 Society for American in Archaeology (SAA) international conference in Albuquerque, NM.
- 2018 (with Amber Johnson, Peter Turchin, and Christina Collins) *Global & Regional Frameworks for Comparing Agricultural Intensification & Productivity Across Cases*. Invited Poster at the 2018 Society for American in Archaeology (SAA) international conference in Washington D.C.
- 2018 *Modeling the Variability of Maya Agricultural Dynamics: A Socio-Ecological Systems Approach*. Invited Presentation at the 2018 Emergence of Societal Complexity through Human-Environment Realties (ESCHER) Workshop in Delft, Netherlands.
- 2017 *Settlement Scaling in the Historical Record: Medieval Europe and Tudor England*. Invited Presentation at the 2017 Society for American in Archaeology (SAA) international conference in Vancouver, Canada.
- 2017 *Estimating Mesoamerican Settlement Population: A New Method, with Examples from the Basin of Mexico and the Patzcuaro Basin*. Invited Presentation at “Current research in Mesoamerican archaeology: Contributions from Central, West and Northern Mexico” conference at the School of Human Evolution and Social Change, Arizona State University, Tempe, Arizona.
- 2017 *Re-Evaluating Settlement Population Estimation: An Analogue Based Method for Modeling Patterned Variation in Population Density*. Invited Presentation at the 2017 Computer Applications and Quantitative Methods in Archaeology (CAA) international conference in Atlanta, GA.
- 2015 *Scaling Medieval European Cities and its Implications for Archaeology*. Presentation at ASU-SFI Urban Scaling Workshop, Santa Fe Institute, Santa Fe, NM.
- 2015 *Scaling Medieval Cities: Data Quality, Methods, Context and Analysis*. Presentation at ASU-SFI Urban Scaling Workshop, ASU, Tempe, AZ.
- 2014 *Epistemological Problems, Methodological Issues, Scholarly Debates and Informed Estimates in Agricultural Productivity and Spatial Energetic Modeling*. Presentation at Seshat Global History Database Workshop, University of Oxford, Oxford, UK.
- 2014 *Epistemological Problems, Methodological Issues, Scholarly Debates and Informed Estimates in Demographic Modeling*. Presentation at Seshat Global History Database Workshop, University of Aarhus, Aarhus, DK.
- 2012 *The Socio-Economic Transformation of Northeastern Missouri, 1850 - 1880*. Paper presented at the Student Research Conference, Truman State University, Kirksville, Missouri.
- 2012 *The Process of School Consolidation in Schuyler County, Missouri: Demographics, Economics and Institutional Change*. Paper presented at the Student Research Conference, Truman State University, Kirksville, Missouri.
- 2011 *Visually Documenting School: Yearbook Photos, School Consolidation, and Community Identity*. Poster presented at American Anthropological Association

- Society for Visual Anthropology: “First Rites—Innovative Undergraduate Research in Anthropology,” Montreal, Canada.
- 2011 *School Consolidation and Social Change: Generational and Community Disjunctures between Roles and Expectations of School in Two Midwestern School Districts*. Paper Presented at Truman State University TruScholars Research Symposium, Kirksville, Missouri.
- 2011 *Banking Books for Pakistan: Raising Leaders in Aliabad, Hunza*. Presentation and Proposal for University of Chicago RISE Pakistan Social Entrepreneurship Grant.

## **PROFESSIONAL SERVICE**

- 2018 - present Reviewer for *Cliodynamics: The Journal of Quantitative History and Cultural Evolution* open-access journal
- 2016 - 2019 Editor for the *International Journal of Student Research in Archaeology* open-access student journal

## **GRANTS, AWARDS AND SCHOLARSHIPS**

- 2023 SHESC Dissertation Completion Fellowship, School of Human Evolution and Social Change, Arizona State University, Tempe, Arizona.
- 2019 SHESC Research Award, School of Human Evolution and Social Change, Arizona State University, Tempe, Arizona.
- 2012 Outstanding Student in Anthropology, Department of Anthropology, Truman State University, Kirksville, Missouri.
- 2011 Excellence in the Presentation of a Poster, American Anthropological Association Society for Visual Anthropology
- 2008-2012 President’s Honorary Scholarship, Truman State University, Kirksville, Missouri.
- 2011 President’s List, Truman State University, Kirksville, Missouri.

## **MEMBERSHIPS AND AFFILIATIONS**

- 2019-present Associate, Coalition for Archaeological Synthesis (CfAS)
- 2014-present Member, Society for American Archaeology (SAA)
- 2011-2015 Member, American Anthropological Association (AAA)
- 2011-2012 Founding Member, Lambda Alpha, National Anthropology Honors Fraternity, Zeta Chapter of Truman State University
- 2011-2012 Executive Officer, Cultural and Societal Honors Society, Departmental Honors Service Organization, Truman State University

- 2009-2012 Member, Phi Alpha Theta, National History Honors Fraternity, Nu Chi Chapter, Truman State University
- 2010-2012 Founding Executive Officer, Pakistan Book Bank Philanthropy, Truman State University

### **OTHER RELEVANT COURSEWORK**

- 2017 Courses in Quantitative Geomorphology, School of Earth and Space Exploration (SESE), Arizona State University
- 2013-2016 Courses in Non-linear Dynamical Systems and Agent-Based Modeling, Santa Fe Institute Complexity Explorer

### **LANGUAGES**

Professional proficiency in Spanish and German. Native English speaker.

### **TECHNICAL/COMPUTATIONAL SKILLS**

- R
- GIS software (GRASS, Quantum, Arc)
- Python
- NetLogo
- DSSAT
- Matlab/Octave
- UCINET, Gephi
- XPPAUT
- Panoply
- SQL, SQL-lite
- Leica Total Station
- Spectra Precision Survey Software
- Wiki development
- GIMP
- Adobe Creative Suite (Photoshop, Illustrator)
- Microsoft Office