

Jon Clindaniel

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Education

Harvard University <i>Ph.D., Anthropology</i> <i>Research Focus: Computational Archaeology</i>	Cambridge, MA 2019
Harvard University <i>A.M., Anthropology</i>	Cambridge, MA 2016
University of Chicago <i>A.B., Near Eastern Languages and Civilizations</i> <i>Minor: Statistics</i>	Chicago, IL 2012

Experience

Academic Appointments.....

University of Chicago <i>Associate Director of Undergraduate Studies,</i> <i>M.A. Program in Computational Social Science</i>	Chicago, IL 2022–Current
University of Chicago <i>Assistant Senior Instructional Professor,</i> <i>M.A. Program in Computational Social Science</i>	Chicago, IL 2022–Current
University of Chicago <i>Assistant Instructional Professor,</i> <i>M.A. Program in Computational Social Science</i>	Chicago, IL 2019–2022

Additional Relevant Experience.....

Open Khipu Repository <i>Advisory Board Member</i> This open-source digital repository stores the most up-to-date data and metadata on Andean khipus located in the Andes, as well as museums around the world	Virtual 2021–Current
Open Khipu Research Laboratory <i>Director</i> Developing open-source software to promote the computational decipherment of Inka khipus	Chicago, IL 2020–Current
HarvardX <i>Content Developer</i> Developed content for “Introduction to the Digital Humanities” course on the edX platform	Cambridge, MA 2018–2019
Proyecto Arqueológico Incahuasi <i>Archaeologist</i> Archaeological Trench Supervision/Total Station Mapping/Khipu Artifact Analysis	Paullo, Peru 2016

Çadır Höyük <i>Archaeological Trench Supervisor</i>	Peyniriyemez, Turkey 2009, 2013-2014
Erbil Plain Archaeological Survey <i>Archaeological Surveyor</i>	Erbil, Iraq 2013
Vitor Valley <i>Archaeology Field School Supervisor/Teaching Assistant</i>	Vitor, Peru 2012
Kerkenes Dağ <i>Archaeological Trench Supervisor</i>	Şahmuratlı, Turkey 2010

Publications

- Magnani, M., **J. Clindaniel**, and N. Magnani. "Material Culture Studies in the Age of Big Data: Digital Excavation of Homemade Facemask Production during the COVID-19 Pandemic." *American Antiquity* (In Press).
- Magnani, M., D. Grindle, S. Loomis, A. Kim, V. Egbers, **J. Clindaniel**, A. Hartford, E. Johnson, S. Weber, and W. Campbell. "Evaluating Claims for an Early Peopling of the Americas: Experimental Design and the Cerutti Mastodon Site." *Antiquity* 93, no. 369 (2019): 789–795.
- Clindaniel, J.**, and G. Urton. "Quipus de Pachacamac: hacia la estandarización de las convenciones de signos en el Tawantinsuyu." In *Pachacamac: El Oráculo en el horizonte marino del sol poniente*, ed. by D. Pozzi-Escot, 274–287. Lima: Banco de Credito del Perú, 2017.

Presentations and Talks

- Splitstoser, J. C., and **J. Clindaniel**. "Color in Wari and Inka Khipus." Paper presented at the Society for American Archaeology annual meeting, Chicago, IL, Apr. 2, 2022.
- Clindaniel, J.** "Studying disruptive material processes at scale in digital marketplaces." Invited Presentation at The University of Tromsø - The Arctic University of Norway Conference *Disruptive Materials*, Tromsø, Norway, Mar. 3, 2022.
- Clindaniel, J.** "Codificación de secuencias de acciones en khipus Inca." Invited Presentation at Museo de Arte de Lima "Conversatorio" *Descifrando el lenguaje narrativo de los khipus*, Virtual, Jan. 15, 2021.
- Clindaniel, J.** "Interpreting the Political Dynamics of Inka Khipu Sign Production." Invited Presentation at the Center for the Study of Origins (CU Boulder) Symposium *The Origins of Writing: Power and Technology*, Virtual, Sept. 19, 2020.
- Clindaniel, J.** "Encoding Sequential Actions in the Inka Khipu." Invited Presentation at Fondation Fyssen Colloquium *Enacting social memory: cognition, image-making, and ritual action*, Paris, FR, Dec. 6, 2019.
- Clindaniel, J.** "Colors of the Inka Khipu: Demonstrating a Link to Textile Production." Paper presented at the Society for American Archaeology annual meeting, Albuquerque, NM, Apr. 11, 2019.
- Clindaniel, J.** "Towards an Understanding of Non-numerical Inka Khipu Semiosis." Invited Presentation at Bard Graduate Center Symposium *Khipus: Writing Histories In and From Knots*, New York, NY, Feb. 1, 2019.

Clindaniel, J. "A Computational Approach to Deciphering Non-Numerical Inka Khipu Signs." Invited Presentation at Dumbarton Oaks Workshop on Khipus and Khipu Decipherment, Washington, D.C, Aug. 3, 2018.

Clindaniel, J. "Are Inka Khipu Knots Anything More than Numbers? A Computational Investigation." Paper presented at the Society for American Archaeology annual meeting, Washington, D.C, Apr. 12, 2018.

Urton, G., and **J. Clindaniel.** "Color Banding and Color Seriation in the Inka Khipus." Paper presented at the Society for American Archaeology annual meeting, Orlando, FL, Apr. 8, 2016.

Ur, J., and **J. Clindaniel.** "Cities, States, and Empires on the Erbil Plain, Kurdistan Region of Iraq." Paper presented at the American Schools of Oriental Research annual meeting, San Diego, CA, Nov. 22, 2014.

Honors

2018-2019: Harvard GSAS Dissertation Completion Fellowship

2015, 2018: Harvard University Bok Center Certificate of Distinction in Teaching

2018: Currier Fund Summer Research Grant

2016: Hemenway Fund Summer Research Grant

2013-2016: Harvard Graduate School of Arts and Sciences Summer Research Award

2012-2016: Harvard Graduate School of Arts and Sciences Fellowship

2010-2011: University of Chicago International House Collegiate Fellowship

Teaching Experience

Large-Scale Computing for the Social Sciences

MACS 30123, University of Chicago 2020-2022

Computational Analysis of Social Processes

MACS 30124, University of Chicago 2021

Computation and the Identification of Cultural Patterns

MACS 40400, University of Chicago 2019-2022

Perspectives on Computational Research

MACS 30200, University of Chicago 2020-2022

Computer Science with Social Science Applications I-II

MACS 30121-30122, University of Chicago 2020-2021

Perspectives on Computational Analysis

MACS 30000, University of Chicago 2019

Proficiencies

Languages.....

Akkadian: 2 years

Middle Egyptian: 1 quarter

Spanish: Advanced

Hittite: 1 year

Persian: 1 year

Quechua: Intermediate

Technical Skills.....

Programming Languages: Python, R, C++, SQL, Bash

Parallelization Frameworks: MPI, OpenCL, CUDA, Spark, Dask

Professional Exams/Certifications.....

Amazon Web Services: Certified Solutions Architect – Associate

Professional Memberships.....

Society for American Archaeology (SAA)

Association for Computing Machinery (ACM) Special Interest Group on Computer Science Education (SIGCSE)

Media Coverage

Bower, B. "These knotted cords may hide the first evidence that the Incas collected taxes." *Science News* (June 11, 2019).