

Dr. Lauren Herckis

Simon Initiative Library Faculty, Carnegie Mellon University Libraries
Special Faculty Researcher, Human-Computer Interaction Institute, Sch. of Computer Science
Affiliated Faculty: Simon Initiative, Block Center for Technology and Society, Integrative Design, Arts, and Technology (IDeATe), Integrated Innovation Institute (iii)

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RESEARCH INTERESTS

Human-computer interaction; anthropology; implementation science; education research; digital archaeology; technological innovation and social change

EDUCATION

2015 Ph.D. Anthropology

University of Pittsburgh, Pittsburgh, Pennsylvania

Title: Cultural Variation in the Maya City of Palenque

Advisor: Dr. Robert Drennan

Thesis Committee: Dr. Marc Bermann, Dr. Olivier De Montmollin, Dr. Laura Putnam

2007 Latin American Studies Certificate

University of Pittsburgh, Pittsburgh, Pennsylvania

1999 B.A. Anthropology

University of Michigan, Ann Arbor, Michigan

ACADEMIC HONORS AND AWARDS

2020 Best Paper Honorable Mention, Design of Interactive Systems 2020 ACM Conference

2016 Early Career Researcher Award, POD Network in Higher Education

2012 University of Pittsburgh Arts and Sciences PCB Alumni Fellowship

2011 H.J. Heinz Fellowship

2009 Fulbright Garcia-Robles IIE Fellowship

PROFESSIONAL EMPLOYMENT

Carnegie Mellon University

2019-Present Director, The Culture Lab

- Develop more than 25 grant proposals as Principle or Co-Investigator, catalyzing more than \$10M in funded research from public and private sectors.
- Direct graduate and undergraduate independent study students.
- Offer guest lectures and workshops on research methods, design research in education, human-computer interaction, and the digitalization of higher education.

2017-Present Special Faculty Researcher, Human-Computer Interaction Institute, School of Computer Science

- Design, conduct, and manage research, including as Principal Investigator.
- Supervise research students. Actively participate in the continuing effort to improve departments, colleges and the university.
- Develop and deliver courses including 05-738 *Evidence-based Educational Design*

2021-Present Simon Initiative Library Faculty, University Libraries

- Advance learning science, conduct research on campus culture and institutional transformation, and develop an implementation science for postsecondary education.
- Apply learning theory to instruction, employing communications theory for reference, and adapting administrative/management techniques to libraries.

2018-2021 Simon Initiative Special Faculty, College of Humanities & Social Sciences

2015-2018 Postdoctoral Research Associate, College of Humanities & Social Sciences

- Plan and coordinate multi-year, cross-institutional learning science research projects.
- Develop and evaluate educational experiences for postsecondary contexts.
- Clearly communicate learning science principles and strategies to the public.

University of Pittsburgh

2013-2015 Coordinator for Teaching Assistant Services, Center for Teaching and Learning

- Designed, facilitated, and evaluated more than 50 workshops and curricula for instructors, serving over 1000 unique learners in face-to-face professional development.
- Collaborated with academic units to develop and implement evidence-based programs, activities, and training resources for aspiring academic faculty and nurse educators.

2013 Research Assistant in Anthropology, Center for Comparative Archaeology

- Analyzed, preserved, and disseminated primary research data.
- Integrated data archive information with associated project documentation.

Center for Health Equity Research and Promotion (CHERP), Department of Veterans Affairs

2011-2013 Health Science Research Specialist

- Designed research strategies and protocols for qualitative and mixed-methods research.
- Collected observational data using standard ethnographic and field methods.

Inter-University Consortium for Political and Social Research (ICPSR)

1999-2002 Data Archive Specialist

- Collaborated with cross-functional teams to analyze complex datasets.
- Prepared results of research for publication and dissemination.

RESEARCH SUPPORT

Open CMU: Pilot OER (Open Educational Resource) Engagement Project (PI Emily Bongiovanni, Co-PI Lauren Herckis)
Simon Initiative Seed Grant
Award Amount: \$15,000 [PENDING: Information Requested 5/23/2023]

Bridges to Digital Economy Jobs (PI Lee Branstetter, Co-PIs Lauren Herckis, Bruce McLaren, Carolyn Rose, and Majd Sakr)
Richard K. Mellon Foundation: Science and Technology Talent Development RFP
Amount: \$\$499,923 [PENDING: Submitted 5/17/2023]

AI-Enabled Open Science at Carnegie Mellon University (PI Lauren Herckis, Co-PIs Lencia Beltran, and Chasz Griego)
Simon Initiative Seed Grant
Award Amount: \$15,000 Award Period: 6/1/2023 – 5/31/2025

Data Science for Education (PI John Stamper, Co-PIs Rebecca Nugent, Carolyn Rose, Ken Koedinger, and Norman Bier)
Institute of Education Sciences: Research Training Programs in the Education Sciences
Award Amount: \$800,000 Award Period: 10/1/2023 – 9/31/2025

A New Bridge to the Digital Economy: Integrated AI-Augmented Learning and Collaboration (PI Lee Branstetter, Co-PIs Lauren Herckis, Bruce McLaren, Carolyn Rosé, and Majd Sakr)
National Science Foundation: FW-HTF-R
Award Amount: \$1,800,000 Award Period: 10/1/2022 – 9/31/2025

Improving Learning Outcomes for All General Chemistry Students through Adaptive Hybrid Courses (PIs Dhaval Doshi and Mark Blaser)
California Education Learning Labs
Award Amount: \$1,000,000 Award Period: 7/1/2020 - 6/31/2023

Community Sourced, Data-Driven Improvements to Open, Adaptive Courseware (PI Crystal Jenkins, Co-PIs Lauren Herckis, Nina Robson, and Zachary Pardo)
California Education Learning Labs
Award Amount: \$1,300,000 Award Period: 7/1/2019 – 12/31/2022

Bridging Opportunity Gaps in Urban School Contexts: Techniques and Tools for Personalized Learning Through AI and Culturally Responsive Mentoring (PI Ken Koedinger, Co-PIs Elon Dancy, and Lee Branstetter)
Chan Zuckerberg Initiative – Silicon Valley Community Foundation
Award Amount: \$1,800,000 Award Period: 9/1/2018 – 6/31/2020

Deploying Educational Technology with Fidelity: Capitalizing on Research from Biomedicine (PI Lauren Herckis, Co-PI Bruce McLaren)
Simon Initiative ProSEED Award
Award Amount: \$15,000 Award Period: 8/15/2018 – 6/31/2019

New Educational Technology and Skill Formation in the 21st Century (PI Lee Branstetter Co-PIs Saurabh Bhargava, Lauren Herckis, and Kenneth R. Koedinger)

Hillman Foundation Education Grant

Award Amount: \$500,000 Award Period: 1/1/2018 – 12/31/2018

Planning a Pittsburgh Innovation Cluster (PI Ken Koedinger)

Chan Zuckerberg Initiative – Silicon Valley Community Foundation

Award Amount: \$75,000 Award Period: 4/1/2018 – 8/15/2018

VR-Home (PI Jessica Hammer, Co-PIs Tom Corbett and Lauren Herckis)

Verizon Industry Partnership Funding

Award Amount: \$200,000 Award Period: 9/1/2017 – 8/15/2018

The Relationship Between Self-Assessment, Self-Efficacy, and Instructional Practice (PI Lauren Herckis)

POD Early Career Researcher Award

Award Amount: \$2,000 Award Period: 9/1/2016 – 8/31/2017

Understanding and Overcoming Institutional Roadblocks to the Adoption and Use of Technology-Enhanced Learning Resources in Higher Education (PIs Richard Scheines, Joel Smith, and Norman Bier)

Carnegie Corporation of New York

Award Amount: \$1,000,000 Award Period: 1/1/2015 – 12/31/2018

Proyecto Variación Cultural en la Región de Palenque (PI Robert Drennan, Co-PI Lauren Herckis)

Fulbright IIE

Award Amount: \$24,000 Award Period: 1/15/2009 – 6/1/2011

REFEREED JOURNAL AND CONFERENCE PUBLICATIONS

Herckis, L. (Under Review: Submitted February 18, 2023) Behavioral Chain Analysis of Digital Artifacts. Under review by the *Journal of Computer Applications in Archaeology*.

Beltran, L., Griego, C., **Herckis, L.** (Accepted February 3, 2023) Open Science Recommendation Systems for Academic Libraries. Under development in collaboration with editors of *Journal of eScience Librarianship*.

Timperley, C., **Herckis, L.**, Le Goues, C., Hilton, M. (2022) Understanding and Improving Artifact Sharing in Software Engineering Research. *44th International Conference on Software Engineering (ICSE)*. 2022

Ma, Q., and **Herckis, L.** (2021) Work-In-Progress Paper: VR-Enabled Pedagogy in a First-Year Seminar. 2021 7th International Conference of the Immersive Learning Research Network (iLRN). IEEE, 2021. <https://doi.org/10.23919/iLRN52045.2021.9459331>

Timperley, C., **Herckis, L.**, Le Goues, C., Hilton, M. (2021) Understanding and Improving Artifact Sharing in Software Engineering Research. *Empirical Software Engineering* 26(67) <https://doi.org/10.1007/s10664-021-09973-5>

Herckis, L., Cao, J., Fashimpaur, J., Henson, A., Rodgers, R., Corbett, T. W., Hammer, J. (2020) Exploring Hybrid Virtual-Physical Homes. In *Proceedings of the 2020 ACM Conference on Designing Interactive Systems (DIS '20)*, July 6-10, 2020, Eindhoven, Netherlands (Converted to virtual conference.) <https://doi.org/10.1145/3357236.3395561>

Honorable Mention Award

Herckis, L. (2018) Passing the Baton: Digital Literacy and Sustained Implementation of eLearning Technologies. *Current Issues in Emerging eLearning: Special Issue on Leveraging Adaptive Courseware* 5(1). <https://scholarworks.umb.edu/ciee/vol5/iss1/4>

Herckis, L. (2018) Implementation Science for Software Engineering: Bridging the Gap between Research and Practice. In *Proceedings of the 2018 33rd ACM/IEEE International Conference on Automated Software Engineering (ASE '18)*, September 3–7, 2018, Montpellier, France. <https://doi.org/10.1145/3238147.3264581>

BOOK CHAPTERS

Herckis, L. (2021). Methodological Approaches to Understanding the Implementation of Technology Enhanced Learning Tools. In *Education Policy in Practice: Critical Cultural Studies, Paths to the Future of Higher Education*. Information Age Publications. Foster, Graham, and Donaldson, editors.

REPORTS, WHITE PAPERS, AND OTHER PUBLIC SCHOLARSHIP

Matthews, B., Barbera, K., Donoahoe, K., and **Herckis**, L. (March 2023) “Multimodal Archives: A Toolkit for Collecting Robotics and Other Complex Material in a Research Ecosystem.” Toolkit made possible by the Alfred P. Sloan Foundation. Available on [Figshare](#).

Herckis, L. & Leiser, A. (2022) “Moving from Stated Values to Enacted Efforts: Strategic Leadership in Higher Education.” In *Digital Transformation of Higher Education*, F. W. Hesse, C. Kobsda, and C. Schemmann, eds. Lebiniz Association. Berlin, Germany. <https://doi.org/10.21241/ssoar.79627>

Custer, S., Deacon, B., **Herckis**, L., Hesse, F. W., Hörig, M., Kercher, J., Knoth, A., Knüttgen, N., Kobsda, C., Leiser, A., Meyer-Guckel, V., Ndemo, B., Saxberg, B., Vignare, K., and Willems, D. (2021) *Digital Transformation of Higher Education—Global Learning Report*. , F. W. Hesse, C. Kobsda, and A. Leiser, eds. Global Learning Council c/o Lebiniz Association. Berlin, Germany. <https://doi.org/10.21241/ssoar.73580>

Collins Brown, E., Brown, V. M., Chace, A., Bostwick Flaming, A. L., Frederick, J., Hatcher, M., **Herckis**, L., Hoessler, C. Kustra, E., Rudder Lohe, D., Mansbach, J., McGowan, S., Troncoso, A. M., Watson, F. F., & Wright, M. C. Illustrations by Gary Hawkins. (2018) *Defining What Matters: Guidelines for Comprehensive Center for Teaching and Learning (CTL) Evaluation*. Created collaboratively for the POD Network. Available at: https://podnetwork.org/content/uploads/POD_CTL_Evaluation_Guidelines_2018.pdf

Herckis, L. (2018) Cultivating Practice. *Practicing Anthropology* 40(1). <https://doi.org/10.17730/0888-4552.40.1.43>

Herckis, L. & Smith, J. (2018) Understanding and Overcoming Institutional Roadblocks to the Adoption and Use of Technology-Enhanced Learning Resources in Higher Education. Report submitted to the Carnegie Corporation of New York. April, 2018.

Herckis, L. (2017) Implementing Evidence-Based Instructional Practices. *Shaping the future of learning: Proceedings of 2017 OEB Conference*, ICWE GmbH: Berlin, Germany. ISBN 978-3-941055-47-6

Herckis, L. (2017) Paces of Change. *Shaping the future of learning: Proceedings of 2017 OEB Conference*, ICWE GmbH: Berlin, Germany. ISBN 978-3-941055-47-6

Götter, R, Susanne, G., Haufe-Wadle, K., Hesse, F. W., Horndasch, S., Janoschka, O., Kobsda, C., Poxleitner, E., Tu, C., Winter, E., Bier, N., Coleman, M. S., Duff, M. N., Lim, C.-H. E., **Herckis, L.**, Koedinger, K. R., Lovett, M., Ogan, A., Perfetti, C., Quinn, D. J., Rademacher, M., Rajan, R., Saxberg, B., Chye, T. E., Walsh, S., & Wieman, C. (2017) Global Learning Council (GLC) Berlin Consensus: Cornerstones of A Successful Digital Transformation of Education. Available at: <https://www.globallearningcouncil.org/publications/berlin-consensus-cornerstones-successful-digital-transformation-education/>

Herckis, L., Scheines, R., & Smith, J. (2017) Failure to embrace new teaching techniques not just about fear of embarrassment, *Times Higher Education* July 12, 2017.

Herckis, L. & Brady, J. (2015) Differentiated Teaching *University Times* 47(12).

Herckis, L. (2015) Working With Your Teaching Assistants *University Times* 46(24).

Fuess, M. T., Casselberry, D. E., Bastianini, K. R., Peterson, C. J., Valko, A. L., **Herckis, L. R.** (2003) Phase I Archaeological Survey of the Proposed Group Buffalo Foul Weather Moorings Site, Buffalo, New York: Report Submitted to Department of Homeland Security, United States Coast Guard Maintenance and Logistics Command Civil Engineering Unit

PAPERS IN PREPARATION

Domadia, T., Jenkins, C. Moore, S., Robson, N., **Herckis, L.** Empowering Instructors to Analyze Course Data in a Collaborative Setting: A Data Analysis Workshop for Postsecondary Instructors. In preparation for the *2024 ACM Conference on Human Factors in Computing Systems*.

Herckis, L. and Barbera, K. Building an Archive of Robotics Laboratories: An Integrated Mixed Methods Approach. In preparation for *Field Methods*.

Herckis, L. and Corbett, T. Using Virtual Reality to Teach Critical Media Literacy. In preparation for the *2024 ACM Conference on Human Factors in Computing Systems*.

Slayton, E., **Herckis, L.** Using Archaeology to Teach Technology Studies. In preparation for *Journal of Archaeology and Education*.

Herckis, L. Better Never than Late: Technology Acceptance and Implementation Science for Postsecondary Adaptive Learning Technologies. In preparation for the *2024 ACM Conference on Human Factors in Computing Systems*.

Herckis, L. and Koedinger, K. Opportunity Gaps: Identifying Perceived Root Causes and Problems of Practice. In preparation for *International Journal of Educational Technology in Higher Education*

Domadia, T., Bier, N., Jenkins, C., Robson, N., and **Herckis**, L. Postsecondary Adoption, Use, and Improvement of Open, Adaptive Learning Technologies: A Diffusion of Innovations Approach. In preparation for *Computers and Education*.

Ma, Q. and **Herckis**, L. VR-Enabled Pedagogy in a First-Year Seminar. In preparation for *Computers and Education*

INVITED TALKS EXTERNAL TO CARNEGIE MELLON

Optimizing Technology-Enhanced Teaching and Learning. Washington and Lee University, Lexington, VA. August 25, 2023.

Using Adaptive Learning Technologies Effectively. California Education Learning Labs meeting, Mt. San Antonio College. June 9, 2023.

The New Digital Divide: Equity and Access in Postsecondary Education. University of Pittsburgh Global Studies Center. Spring 2023 Micro-Course: Technology, Humanity, and Social Justice. March 17, 2023.

The Challenges and Triumphs of Blended Learning. KEDGE Business School, Marseille, France. June 14, 2022. **International invitation.**

Understanding Why Some Educators Adopt New Technologies & Others Don't, The Learnit Podcast. <https://podcasts.apple.com/us/podcast/the-learnit-podcast/id1518322612>. December 16, 2021. **International invitation.**

Faculty and the Adoption of Ed Tech: Blursday Social with Anthropologist Lauren Herckis eLiterate digital event. <https://eliterate.us/>. May 20, 2021.

Glocal Collaboration on Education for Sustainable Development, UNESCO World Conference on Education for Sustainable Development (digital event organized by UNESCO in cooperation with and generously supported by the Federal Ministry of Education and Research of Germany). May 18 2021. **International invited panelist**

Data-driven change: Evidence-based teaching, evidence-based artifact sharing, Consortium for Software Engineering Research (CSER) Meeting (digital event: Ottawa, Canada). May 14 2021. **International keynote**

Human Centered Design in Education: Technology and Anthropology, Believe in Better series offered by the International Interior Design Association (digital event: Chicago, IL). April 29, 2021. **Invited panelist**

What Was Old Is New: Using new technologies and modalities to support established pedagogies, Hanson Center for Inclusive STEM Education. Universal Design for Learning digital event, Easton, PA. February 3, 2021. **Keynote speaker**

Blended and Hybrid Teaching: Effective Pedagogies, California Education Learning Lab Community Dialogue (digital event: Fullerton, CA). February 1, 2021.

Re-Engineering Global Higher Ed Following COVID-19, Learnit Virtual Series, San Francisco, CA. May 7, 2020. **Invited panelist**

Campus Culture, Organizational Change and the Way Institutions and Individuals Engage With Ideas Best In Higher Education Conference, TopHat: Engage, New Orleans, LA. 2020. **Keynote speaker**

Instructional Identity and Pedagogical Choice, D2L, Kitchener, Ontario, Canada. 2019. **International invitation**

Campus Culture and Educational Technology, Carlow University Center for Digital Learning and Innovation's Annual Summer Institute, July 22-23, Pittsburgh, PA. 2019.

Campus Culture, Technological Change, and the Practice of Teaching, West Virginia/Western Pennsylvania chapter of the Association of College and Research Libraries (WPWVC-ACRL), Washington, PA. 2019. **Keynote speaker**

Empowering Educators, Empowering Students, Times Higher Education Teaching Excellence Summit, Glasgow, Scotland. July 10-12, 2018. **International invitation**

Overcoming Barriers to Implementing Best Practices in Technology Enhanced Learning for Higher Education, 20th SURF Education Days, 's Hertogenbosch, the Netherlands. November 6-7, 2018. **International keynote**

Implementation Science for Software Engineering: Bridging the Gap between Research and Practice, 33rd International Conference on Automated Software Engineering (ASE '18), Montpellier, France. Sept 3-7, 2018. **International keynote**

The Eye of the Needle: New Understandings of the Complex Barriers to Instructional Innovation with Technology, EDUCAUSE Learning Initiative Annual Meeting, New Orleans, LA. January 29-31, 2018. **Featured speaker**

What Archaeological Methods Can Teach Us About New Technologies, Centre College, Danville, KY. 2018. **Convocation speaker**

Designing a Field Research Plan, Seminar and Field Program, University of Pittsburgh, Pittsburgh, PA. 2018.

Innovation-Driven Approaches to Teaching Effectiveness, American Council on Education, Washington, DC. 2018.

Othoring the Institution: Digital Futures of the Professoriate, Center for Teaching and Learning, Centre College, Danville, KY. 2018.

Culturally Sensitive Field Research, Center for Latin American Studies, University of Pittsburgh, Pittsburgh, PA. 2018.

Barriers and Affordances to the Adoption of Ed Tech, Empirical Educators Project Inaugural Summit, Stanford University, Stanford, CA. 2018.

Doing Fieldwork, Seminar and Field Program, University of Pittsburgh, Pittsburgh. 2018.

"Good" Professors, Campus Culture, and the Roadblocks to Instructional Innovation, Contemporary Teaching in the Liberal Arts Series, Learning & Research Spring Institute, Middlebury College, Middlebury, VT. **Featured speaker**

The Paces of Change, 25th OEB Global Learning Technologies Conference, December 5-7, 2017, Berlin, Germany. 2017. **International keynote**

Walking the Talk: Overcoming Barriers to the Implementation of Best Practices in Technology Enhanced Learning for Higher Education, with Richard Scheines, Global Learning Council Symposium, Berlin, Germany. 2017. **International invitation**

Challenges to Implementing Evidence-Based Teaching in the Digital Age, with Joel Smith, Forum for the Future of Higher Education, Aspen, CO. June 12-14, 2017.

Culturally Sensitive Field Research, Center for Latin American Studies Field Seminar, University of Pittsburgh, Pittsburgh, PA. 2017.

Digital Futures of the Professoriate? An Ethnographic Exploration of the Role of Teaching, Anthropology Brown Bag Series, University of Louisville, Louisville, KY. 2017.

Teaching Diversity in the Social Science Classroom, Department of Psychology, University of Pittsburgh, Pittsburgh, PA. 2017.

Learning to Dance Backwards and in Heels: Providing Support for International Teaching Assistants, ITA Professionals Symposium, Pittsburgh, PA. 2017. **Keynote presentation**

Getting Ready for More Agency, **Plenary session panelist**, OEB Global, Berlin. 2017.

Walking the Talk: Anthropological Research on the Roadblocks to Adoption of Best Practices in Higher Education, with Richard Scheines, Global Learning Council Meeting and Symposium, Singapore. April 12-14, 2016. **International invitation**

CONFERENCE PRESENTATIONS AND PARTICIPATION

Herckis, L., Mozisek, K. Dubriel, S. (Accepted 4/27/2023) *First Year of College: It's What You Make In/Of It*. 2023 Play Make Learn Conference. Madison, WI, July, 2023.

Beltran, L. Griego, C., **Herckis**, L. *AI-Enabled Open Science Recommendations for Improving Education at Carnegie Mellon*. 2023 WPWVC-ACRL Spring Conference. Keyser, WV. June 2023.

Herckis, L. *Digital Learning: Institutional Transformation in the Wake of the Pandemic*. 2023 Annual Meeting of the Society for Applied Anthropology. Cincinnati, OH, April 2023.

Herckis, L., Jenkins, C., Robson, N., Pardos, Z., Bier, N., Moore, S., Domadia, T. *Community-Sourced, Data-Driven Improvements to Open, Adaptive Courseware*. Poster presented at the 2022 California Education Learning Labs INSPIRE Convening. University of California Los Angeles, October 2022.

Herckis, L. *Unsettling Educative Terrain With Tiktok And Other Social Media Tools* Roundtable, 2022 Annual Meeting of the American Anthropological Association. Seattle, November 2022.

Herckis, L. *The Digitalization of Higher Education After COVID-19* 2022 Annual Meeting of the American Anthropological Association. Seattle, November 2022.

- Herckis, L.** *The Construction of Place in Virtual Environments: An Immersive Pedagogy*. Poster presented at the 2022 Carnegie Mellon Teaching & Learning Summit. Pittsburgh, September 2022.
- Bell, J., Timperley, C., Hilton, M., and **Herckis, L.** *Enabling Continuous Large Scale Software Engineering Experimentation in the Cloud*. KLEE 3rd International KLEE Workshop on Symbolic Execution. September 15, 2022.
- Herckis, L.** *The Cultural Construction of Place: A VR-Enabled Pedagogy*. *Conference on Computer Applications & Quantitative Methods in Archaeology*. Oxford, August 2022.
- Herckis, L.** *Tailoring the ACRL Framework for Information Literacy to Your Campus: Lessons from Implementation Science*. Western Pennsylvania/West Virginia ACRL Spring Conference. Live Virtual Conference. June 1, 2022
- Herckis, L.** *What to keep and what to lose: Using the tools that carried us through a pandemic*. 82nd Annual Meeting of the Society for Applied Anthropology. Salt Lake City, March 2022.
- Herckis, L.** *Archaeology of Spaceless Places*. 49th Annual Meeting in Computer Applications & Quantitative Methods in Archaeology. 2021. Digital event.
- Herckis, L.** *Capstone Session on Anthropology of Higher Education*. **Panel co-organizer** and **moderator** 81st Annual Meeting of the Society for Applied Anthropology. 2021. Digital event.
- Herckis, L.** *Using Performance Matrices to Teach Technology Studies and Understand Innovation*. Paper presented at American Anthropological Association's Raising Our Voices 2020. Digital event.
- Herckis, L.** and Slayton, E. *Archaeological Exploration of Digital Spaces* **Panel co-organizer** 48th International Computer Applications and Quantitative Methods in Archaeology, Oxford, UK. 2020. [Conference cancelled](#)
- Herckis, L.** *Archaeology of Spaceless Places*. 48th Annual Meeting in Computer Applications & Quantitative Methods in Archaeology, Oxford, UK. 2020. [Conference cancelled](#)
- Herckis, L.** *Teaching Innovation: Using Performance Matrices in Technology Studies*. 48th Annual Meeting in Computer Applications & Quantitative Methods in Archaeology, Oxford, UK. 2020. [Conference cancelled](#)
- Herckis, L.** and Slayton, E. *Using Archaeology Theory and Case Studies to Teach Technology* **Roundtable co-organizer** 48th International Computer Applications and Quantitative Methods in Archaeology, Oxford, UK. 2020. [Conference cancelled](#)
- Herckis, L.** *Anthropology in and of Curriculum and Assessment Practice* **Panel organizer** 80th Society for Applied Anthropology Annual Meeting, Albuquerque, NM. 2020. [Conference cancelled](#)
- Herckis, L.** *The Good Professor: Conflict between Policies, Norms, and Evidence-Based Practices in Higher Education* 80th annual meeting of the Society for Applied Anthropology, Albuquerque, NM. 2020. [Conference cancelled](#)

- Lobczowski, N. G., Richey, J. E., Yu, P., **Herckis**, L., Donaldson, K., Branstetter, L., & Koedinger, K. *Building strategies for a personalized learning mentor app: A design case*. Poster presented at the 2020 annual meeting of the American Education Research Association (AERA), San Francisco. 2020.
- Herckis**, L., Jenkins, C., Robson, N., Pardos, Z., Bier, N., Moore, S. *Community-Sourced, Data-Driven Improvements to Open, Adaptive Courseware*. Poster presented at the October 2019 Learning Lab Fall Convening + STEM Equity Conference. Berkeley, 2019.
- Herckis**, L. *University Leadership and the Universities of the Future* **Panel organizer** 79th Society for Applied Anthropology Annual Meeting, Portland, OR. 2019.
- Herckis**, L. *Building Community Across Recitations* Poster presented at the Pittsburgh Regional Faculty Symposium, Pittsburgh, PA. 2019.
- Herckis**, L. *The Dissonance of a Virtual Campus: Teaching in the Digital Age*, Society for Applied Anthropology Annual Meeting, Portland, OR. 2019.
- Herckis**, L. *Implementation Science and Applied Anthropology* **Panel organizer** 78th Society for Applied Anthropology Annual Meeting. 2018.
- Young, L., **Herckis**, L., Kroot, M., Feder, K., Smith, A., Anderson, D. S., Card, J., Gokee, C., Watrall, E., and White, A. *Engaging “Alternative Archaeology”* **Invited discussant**, 78th Society for American Archaeology Annual Meeting, Washington, DC. 2018.
- Herckis**, L. *Translating Research to Practice in Postsecondary Instruction*, Society for Applied Anthropology Annual Meeting, Santa Fe, NM. 2018.
- Herckis**, L. *Contextual Expertise: A Strategy for Maximizing Guest Lectures*, Poster presented at the Pittsburgh Regional Faculty Symposium, Pittsburgh, PA. 2018.
- Herckis**, L. *Archaeology as Anthropology: Chaîne Operatoire and the Analysis of Contemporary Technologies*, Society for American Archaeology Annual Meeting, Washington, DC. 2018.
- Herckis**, L. *Faculty, Administration, and Institutional Culture in Higher Education* **Session chair**, 77th Society for Applied Anthropology Annual Meeting, Vancouver. 2017.
- Herckis**, L. *Anthropologies of Pedagogy/Pedagogies of Anthropology* **Roundtable discussant**, 77th Society for Applied Anthropology Annual Meeting, Vancouver. 2017.
- Herckis**, L. *Digitizing the Ivory Tower*, American Anthropological Association Annual Meeting, Washington, DC. 2017.
- Herckis**, L. *Contextualizing Expertise: A Strategy for Maximizing Guest Lectures*, Poster presented at the Teaching and Learning Summit, Carnegie Mellon University, Pittsburgh, PA. 2017.

- Herckis, L.** *Knowing What We Know: Self-Assessment, Self-Efficacy, and Instructional Practice*, POD Network in Higher Education Conference, Montreal. 2017.
- Herckis, L.** *Identity, Policy, and the Performance of Teaching*, Society for Applied Anthropology Annual Meeting, Vancouver. 2017.
- Herckis, L.** *Understanding Roadblocks to the Adoption of Effective Learning Resources*, POD Network in Higher Education Annual Conference, Louisville. 2016.
- Herckis, L.** *The Future is Now? Methodological Approaches to Understanding the Implementation of Technology Enhanced Learning*, Society for Applied Anthropology Meetings, Vancouver. 2016.
- Herckis, L.** *Marine Fossils and Domestic Ritual in Maya Commoner Households*, Society for American Archaeology Annual Meeting, Orlando, FL. 2016.
- Herckis, L.** *Team-Based Learning as Network Building in Future Faculty Development*, the 8th Annual Great Lakes Conference on Teaching and Learning, Mt. Pleasant, MI. 2015.
- Herckis, L.** *Why We Tell Them We're Divorced: When local expectations clash with our roles as researchers*, Society for American Archaeology Annual Meeting, Austin, TX. 2014.
- Herckis, L.** *Moderating MOOCs: Challenges in and Solutions for the Massive Discussion Forum*, EDUCAUSE Connect, Baltimore, MD. 2014.
- Herckis, L.** *The Politics of Praxis in Archaeological Fieldwork*, American Anthropological Association Annual Meeting, Washington, DC. 2014.
- Herckis, L.** *Comunidades en un sistema económico urbano: fósiles en Palenque*, the 9^o Congreso Internacional de Mayistas, Mexico City, MX. 2013.
- Herckis, L.** *The Women Can Wash: Employing Women On An Archaeological Crew*, Society for American Archaeology Annual Meeting, Oahu, HI. 2013.
- Herckis, L.** *Obsidian blade production and exchange in northern Chiapas, Mexico*, Society for American Archaeology Annual Meeting, Memphis, TN. 2012.

TEACHING AT CARNEGIE MELLON UNIVERSITY

Library Workshops

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|-------------|---|
| Spring 2023 | Crafting an Individual Development Plan Part 1: Introduction |
| | Crafting an Individual Development Plan Part 2: Commitments, Flexibility, and Balance |
| | Crafting an Individual Development Plan Part 3: Charting a Course |
| | Discipline-based Educational Research Part 1: Introduction |
| | Discipline-based Educational Research Part 2: Educational Research Methods |
| | Discipline-based Educational Research Part 3: Project Planning |
| | Fall 2022 |

For-Credit Courses

		Students	Teaching (1-5)	Course
Spring 2023	(A4) Digital Ethnography	16	4.4	4.1
Spring 2023	(A3) Technology and Society	3	4.5	4.5
Fall 2022	Evidence-based Educational Design <i>with K. Larson</i>	32	4.6	4.3
Spring 2022	Learning About Learning	9	4.6	4.2
	Unreality: Immersive & Spatial Media <i>with T. Corbett</i>	37	3.9	3.8
	(A4) Digital Ethnography	12	4.3	3.9
Fall 2021	Education, Goals, Instruction, Assessment	33	4.6	4.2
Spring 2021	Learning About Learning	9	5	4.8
	Unreality: Immersive & Spatial Media <i>with T. Corbett</i>	36	4.5	4.5
	(A4) Digital Ethnography	12	3.8	3.4
Fall 2020	(A1) Paleokitchen	20	4.9	4.7
	Education, Goals, Instruction, Assessment <i>with Carver</i>	11	5	5
Summer 2020	Mummy's Curse: Uses & Abuses of Archaeology	8	4.7	4.7
Spring 2020	(A4) Digital Ethnography	27	3.7	3.2
	Feeding the World, Feeding Ourselves <i>with A. Owen, G. Silva, and J. Soluri</i>	60		
	Learning About Learning	17	4.6	4.6
Fall 2019	Education, Goals, Instruction, Assessment <i>with Carver</i>	32	4.6	4.5
	(A1) Introduction to Archaeological Methods	16	4.7	4.6
Spring 2019	(A3) Archaeology of Technology	16	4.7	4.6
	Feeding the World, Feeding Ourselves <i>with A. Owen, G. Silva, and J. Soluri</i>	54		
Fall 2018	Education, Goals, Instruction, Assessment <i>with Carver</i>	26	4.8	4.6
Fall 2018	(A1) Archaeology of Death	22	4.8	4.8
Spring 2018	(A3) Mummy's Curse: Uses & Abuses of Archaeology	23	4.8	4.7
Fall 2017	(A1) Paleokitchen: Cooking in the Ancient World	21	4.8	4.8
Spring 2017	Introduction to Archaeological Methods	11	4.3	3.8
Fall 2016	(A2) Archaeology of Death	22	4.3	4.4
	(A1) Paleokitchen: Cooking in the Ancient World	16	4.5	4.5
Spring 2016	(A3) Archaeology: Understanding the Ancient World	18	4.75	4.7
Spring 2016	(A4) Mummy's Curse: Uses & Abuses of Archaeology	24	4.94	4.9

TEACHING AT OTHER INSTITUTIONS

University of Pittsburgh – Workshops

I offered more than fifty (50) workshops for doctoral candidates and junior faculty over two years, serving more than a thousand (1000) learners. Workshops included: Grading, Feedback, and the Curve*; Using Office Hours Effectively*; Designing In-Class Activities*; Encouraging Student Participation*; Developing a Teaching Philosophy Statement; Developing a Teaching Portfolio; Teaching a Six-Week Course; and more. (*) indicates a workshop I developed.

University of Pittsburgh – Full semester courses

2014-2015	Design and Process	School of Nursing
2014-2015	University Teaching Practicum	Center for Teaching and Learning
2012	Mesoamerica Before Cortes	Department of Anthropology
2011	Origins of Cities	Department of Anthropology

<i>Penn State University System – Full semester courses</i>		<i>Campus</i>
2010-2012	Intro to Biological Anthropology	Beaver
2010-2012	Humans as Primates	Beaver
2007-2012	Introduction to Anthropology	New Kensington, Beaver
2009-2012	Sex and Evolution	Beaver
2008-2010	North American Archaeology	Beaver
2007-2012	Aztec, Inca, Maya	Beaver, New Kensington

MENTORING AND SUPERVISION

Graduate Teaching Assistants

2023	Nila Gao, <i>integrated innovation institute</i> Devin White, <i>integrated innovation institute</i>
2022	Ashlon Frank, <i>integrated innovation institute</i> Jiaqi Zhang, <i>School of Computer Science</i>
2021	C.P. Moreau, <i>Dietrich College</i>
2020	Will Nalls, <i>Dietrich College</i>
2019	Pierce Williams, <i>Dietrich College</i>

Senior Thesis Committee Advising

2018-2019	Zain Islam-Hashmi, Architecture: <i>Earthworks Construction in Pittsburgh</i>
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Supervision, Advising, and Mentoring of Graduate Students

2022-2023	Yue Wang, Masters of Educational Technology and Applied Learning Science, Independent study: <i>AI-Augmented Learning in Community Colleges</i> Manvi Teki, Masters of Educational Technology and Applied Learning Science, Independent study: <i>AI-Augmented Learning in Community Colleges</i> Qiaoqiao Ma, Masters of Educational Technology and Applied Learning Science, Independent study: <i>AI-Augmented Learning in Community Colleges</i> Laura Delince Ceballos, Masters of Educational Technology and Applied Learning Science, Research Assistant: <i>Digitalization of Higher Education</i> Marsha Kerman, METALS student advisee Qinglin Feng, METALS student advisee Jitian Liao, METALS student advisee Yue Wang, METALS student advisee
2022	Winter Clark, Masters of Educational Technology and Applied Learning Science, Evidence-based Educational Design Mentor Xinzhu Wang, Masters of Educational Technology and Applied Learning Science, Evidence-based Educational Design Mentor Tyree Cowell, Masters of Educational Technology and Applied Learning Science, Research Assistant: <i>Adoption of Adaptive Learning Technologies</i>

- 2021-2022 Prithika Acharya, Masters of Educational Technology and Applied Learning Science, Independent Study: *Digitalization of Higher Education*
 Xinlu Gou, METALS student advisee
 Rhea Li, METALS student advisee
 Ziwen Zheng, METALS student advisee
 Yangling Zhang, METALS student advisee
- 2018 Swarnakshi Kapil, Masters of Educational Technology and Applied Learning Science, Independent Study: *Traversing Virtual-Physical Spaces*
- 2016 Jessica Walker, University of Pittsburgh: External Faculty Mentor, *Defend and Then* series for PhD candidates in Anthropology, University of Pittsburgh

Lab group supervision and mentorship

- 2019-2023 Culture Lab: Projects include *AI-Augmented Learning in Community College Cybersecurity Courses*, *Digitalization of Higher Education*, *VR-Enabled Pedagogy in a First-Year Seminar*, and *Adoption of Adaptive Learning Technologies*, *Pittsburgh Regional Innovation Addressing Opportunity Gaps in Education: A Scalable Data-Driven Infrastructure for Personalized Learning*, *VR-Enabled Pedagogy in a First-Year Seminar*, and *Educational Technology in Higher Education: Opportunities and Transformation*.

Mentoring and Supervision of Undergraduate Students

- 2023 Zhijin Wu, Information Systems, Independent study: *AI-enabled recommendation systems*
 Juhye Pak, Information Systems and Statistics and Machine Learning: Independent study: *XR-enabled pedagogy*
- 2022 Xiaohan Liu, Statistics and Data Science, Independent study: *Adoption of Adaptive Learning Technologies*
 Irene Kang, Psychology Department, Independent study: *Adoption of Adaptive Learning Technologies*
- 2021-2022 Qianou Ma, Psychology Department, Independent study: *Immersive Media in Undergraduate Education*
- 2018 Vera Schulz, History Department, Independent study: *Implementation of Innovative Ed Tech*
- 2018 Elaine Zhu, History Department, Independent study: *Humanities and Communication for Understanding Hybrid Virtual-Physical Homes*
- 2017 Vivian Qiu, School of Design, Independent Study: *Methods of Mourning*
- 2017 Lea Cody, School of Design, Independent Study: *Mourning Objects*
- 2017 Maria Barr, History Department: mentored in preparation for Poggio Civitate Field School, Italy
- 2017 Gwen Luvara, History Department: mentored in preparation for the Southern Costa Rica Archaeological Project, Costa Rica and Panama
- 2017 Laura Lodewyk, History Department: mentored in preparation for the Southern Costa Rica Archaeological Project, Costa Rica and Panama

MEMBERSHIP AND OFFICES HELD IN PROFESSIONAL ASSOCIATIONS

2023-Present	Vice Chair for Sessions, Anthropology of Higher Education TIG, SfAA
2019-Present	Member, Computer Applications & Quantitative Methods in Archaeology
2017-Present	Member, ACM Association for Computing Machinery
2017-Present	Member, SIGCHI Special Interest Group on Computer-Human Interaction
2015-Present	Member, SfAA Society for Applied Anthropology
2005-Present	Member, AAA American Anthropological Association
2020-2023	Chair, Advisory Board, Anthropology of Higher Education TIG, SfAA
2020-2022	Member, American Educational Research Association
2018	The POD Conference Committee on Assessment
2017-2020	Co-chair, Anthropology of Higher Education TIG, SfAA
2014-2018	Member, EDUCAUSE and EDUCAUSE Learning Initiative
2013-2019	Member, POD Network in Higher Education
2001-2019	Member, SAA Society for American Archaeology

PROFESSIONAL AND UNIVERSITY SERVICE

Carnegie Mellon Committees Participation

2022-Present	Collection Advisory Council, University Libraries
2022-Present	Outreach for Library Teaching & Learning (OLibTel), University Libraries
2022-Present	Open Educational Resources Steering Committee, University Libraries
2019-Present	METALS Curriculum Committee, HCII, Carnegie Mellon University
2019-Present	METALS Admissions Committee, HCII, Carnegie Mellon University
2022	Science and Engineering Liaison Librarian Hiring Committee
2022	HCII Adjunct Faculty Hiring Committee
2022	MIIPS Assistant Teaching Professor Hiring Committee
2019-2021	Fulbright Committee: Review and feedback, mock interview
2019-2020	HOST History of Science and Technology at Carnegie Mellon
2019	Luce Scholarship support: Review and feedback, mock interview

National and International Committees Participation

2023-Present	Scientific Advisory Board member, Metavethics Institute, Cambridge, UK
2023-Present	Program Committee member, International Conference of the Immersive Learning Research Network (iLRN)
2023-Present	Program Committee member, Technical Symposium on Computer Science Education (54th ACM SIGCSE TS 2023)
2023-Present	Vice Chair for Sessions, Anthropology of Higher Education TIG, Society for Applied Anthropology
2022-Present	Working Group Member, International Working Group on Teaching and Learning Anthropology
2022	Scientific Committee Member, Computer Applications and Quantitative Methods in Archaeology (CAA)
2020-2023	Chair of the Board, Anthropology of Higher Education TIG, Society for Applied Anthropology
2017-2020	Co-chair Anthropology of Higher Education TIG, SfAA
2018	The POD Conference Committee on Assessment member

Letters of Recommendation, Reappointment and Evaluation

2023	1 letter of internal evaluation for reappointment or promotion
2022	2 letters of internal evaluation for reappointment or promotion
2021	2 letters of internal evaluation for reappointment or promotion
2020	2 letters of internal evaluation for reappointment or promotion
2019	1 letter of internal evaluation for reappointment
2018	1 letter of internal evaluation for reappointment

Peer Review and Judging

2023	Simon Initiative Seed Grant, Carnegie Mellon University, proposal review
2023	Technical Symposium on Computer Science Education (54th ACM SIGCSE TS 2023) peer reviewer
2022-2023	International Conference of the Immersive Learning Research Network (iLRN) peer reviewer
2018-2023	Society for Applied Anthropology (SfAA) peer reviewer
2022	Computer App's & Quantitative Methods in Archaeology peer review
2021	37th International Conference on Software Maintenance and Evolution (ICSME) peer reviewer
2020-2021	American Educational Research Association (AERA) peer reviewer
2020-2021	Computer App's & Quantitative Methods in Archaeology peer reviewer
2020	Design of Interactive Systems (DIS) peer reviewer
2019-2020	California Educational Learning Labs proposal reviewer
2014-2019	The POD Conference proposal reviewer