

ANDREW R. RUIS

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EDUCATION

- 2011 Ph.D., History of Science, Medicine, and Technology, University of Wisconsin–Madison
2004 M.A., History of Science, Medicine, and Technology, University of Wisconsin–Madison
2002 B.A. & B.S. *cum laude*, Comparative Literature & Microbiology, University of California, Davis

APPOINTMENTS

CURRENT APPOINTMENTS

- 2024– Principal Investigator, Wisconsin Center for Education Research, University of Wisconsin–Madison
2023– Associate Director, Center for Research on Complex Thinking, Wisconsin Center for Education Research, University of Wisconsin–Madison
2017– Associate Director for Research, Epistemic Analytics, Wisconsin Center for Education Research, University of Wisconsin–Madison
Affiliations: Department of Medical History & Bioethics
Robert F. and Jean E. Holtz Center for Science and Technology Studies
Nelson Institute Center for Climatic Research

PAST APPOINTMENTS

- 2015–2017 University of Wisconsin–American College of Surgeons Education Research Fellow, Department of Surgery, School of Medicine and Public Health, University of Wisconsin–Madison
2012–2017 Research Associate, Epistemic Games Group, Wisconsin Center for Education Research, University of Wisconsin–Madison

HONORS & AWARDS

- Chancellor’s Award for Excellence in Research – Critical Research Support, University of Wisconsin–Madison, 2025
Best Paper Award, 2nd International Conference on Quantitative Ethnography, Online, 2021
Best Paper Award, 13th International Conference on Computer-Supported Collaborative Learning, Lyon, France, 2019
Emerging Scholar Fellowship in the History of Home Economics, University of Georgia, Athens, 2012

Pearce Fellowship in the History of Medicine, University of Kansas Medical Center, 2011
Coleman Dissertation Fellowship, Institute for Research in the Humanities, University of Wisconsin–Madison, 2009
Vilas Research Travel Award, University of Wisconsin–Madison, 2008
College of Letters and Sciences Teaching Fellowship, University of Wisconsin–Madison, 2007
Rank Prize for the Best Paper by a Junior Researcher, *Rank Prize Conference on the Origins of the Science of Infant and Child Nutrition*, Windermere, United Kingdom, 2007
Herfurth Distinguished Graduate Fellowship in History of Science, University of Wisconsin–Madison, 2006
Honorable Mention, Shryock Medal Essay Contest, American Association for the History of Medicine, 2005
Richardson Graduate Fellowship in History of Medicine, University of Wisconsin–Madison, 2005
Department Citation in Comparative Literature, University of California, Davis, 2002
Honorable Mention, Eta Sigma Phi National Greek Translation Contest, 2002
Evans-Grimm Prize in Greek, Department of Classics, University of California, Davis, 2001

GRANTS

Wisconsin Partnership Program, Research and Education: Collaborative Health Sciences Program (2025–2027)
Title: Redesigning Surgical Care to Support the Health Outcome Goals and Care Preferences for Older Adults: Better Conversations for Better Informed Consent
Role: Co-Investigator (M. Schwarze, PI)
Amount: \$600,000

National Science Foundation, Building Capacity in STEM Education Research (2025–2027)
Title: Building Capacity to Lead Convergence Research on STEM Learning Processes—Extending the Impact of the Quantitative Ethnography Institute
Role: Co-Principal Investigator (B. R. Eagan, PI)
Amount: \$1,000,000

Wisconsin Center for Education Research (2025–2027)
Title: Center for Research on Complex Thinking
Role: Co-Principal Investigator (D. W. Shaffer, PI)
Amount: \$400,000

National Science Foundation, Building Capacity in STEM Education Research (2025–2026)
Title: Seventh International Conference on Quantitative Ethnography
Role: Co-Principal Investigator (B. R. Eagan, PI)
Amount: \$50,000

National Science Foundation, Discovery Research PreK–12 (2024–2028)
Title: DRK–12: *actLocal*—A Platform for Developing Localized Simulations to Support Interactive Learning about Climate Change
Role: Principal Investigator
Amount: \$3,000,000

National Science Foundation, Education Core Research (2022–2027)

Title: Trans-Modal Analysis (TMA): A Mathematical and Computational Framework for Equitable Assessment of Multimodal STEM Learning Processes

Role: Research Scientist (D. W. Shaffer, PI)

Amount: \$2,500,000

National Science Foundation, Building Capacity in STEM Education Research (2022–2025)

Title: Building Capacity for Equitable Research on STEM Learning Processes using Quantitative Ethnography

Role: Research Scientist (B. R. Eagan, PI)

Amount: \$1,000,000

National Science Foundation, Education Core Research (2021–2026)

Title: *nCoder+*—A Tool for Subgroup-Fair Coding of STEM Learning Data at Scale

Role: Research Scientist (D. W. Shaffer, PI)

Amount: \$2,500,000

National Science Foundation, Advancing Informal STEM Learning (2017–2021)

Title: Local Environmental Modeling: A Toolkit for Incorporating Place-Based Learning into Virtual Internships—a Scalable, Informal STEM Learning Environment

Role: Design and Development Lead (D. W. Shaffer, PI)

Amount: \$2,000,000

National Science Foundation, Cyberlearning for Work at the Human-Technology Frontier (2018–2020)

Title: ROBO-VI: A Virtual-Internship-Based Hybrid Learning Technology to Prepare Traditional and Non-Traditional Students to Work with Collaborative Robots

Role: Co-Principal Investigator (B. Mutlu, PI)

Amount: \$500,000

National Science Foundation, Education Core Research (2017–2022)

Title: Assessing Complex Collaborative STEM Learning at Scale with Epistemic Network Analysis

Role: Research Scientist (D. W. Shaffer, PI)

Amount: \$2,500,000

POM Wonderful (2012–2013)

Title: As Many Uses as Seeds: A Cultural History of the Pomegranate in Pre-Modern Medicine

Role: Principal Investigator

Amount: \$6,000

Robert Wood Johnson Foundation, Health and Society Scholars Dissertation Grant (2008–2009)

Title: Eating to Learn, Learning to Eat: School Foodservice and Public Health Nutrition in Early Twentieth-Century America

Role: Principal Investigator

Amount: \$5,000

PUBLICATIONS

MONOGRAPHS

A. R. Ruis, *Eating to Learn, Learning to Eat: The Origins of School Lunch in the United States*, Critical Issues in Health and Medicine Series (Rutgers University Press, 2017).

Reviews: *Agricultural History* ❖ *Bulletin of the History of Medicine* ❖ *Food, Culture and Society* ❖ *Gastronomica: The Journal of Critical Food Studies* ❖ *Health Affairs* ❖ *Journal of the History of Childhood and Youth* ❖ *Journal of the History of Medicine and Allied Sciences* ❖ *The Lancet Child and Adolescent Health* ❖ *Nursing Clio* ❖ *Social History of Medicine*

JOURNAL ARTICLES

D. W. Shaffer, Y. Wang, & A. R. Ruis, “Transmodal Analysis,” *Journal of Learning Analytics* 12, no. 1 (2025): 271–292.

A. R. Ruis, C. Barford, J. Brohinsky, Y. Tan, M. Bougie, Z. Cai, T. J. Lark, & D. W. Shaffer, “iPlan: A Platform for Constructing Localized, Reduced-Form Models of Land-Use Impacts,” *Multimodal Technologies & Interaction* 8, no. 4 (2024).

S. Zörgő, G.-J. Y. Peters, A. Geröly, A. Jeney, K. Veres, & A. R. Ruis, “An Epistemic Network Analysis of Patient Decision-Making Regarding Choice of Therapy,” *Quality & Quantity* 57, no. 4 (2023): 3105–3132.

V. Popov, A. R. Ruis, & J. M. Cooke, “Taking Stock and Looking Ahead: Evolution of Accreditation Feedback for Simulation Centers over Eight Years Using Epistemic Network Analysis,” *Simulation in Healthcare* 18, no. 1 (2023): 1–7.

S. Zörgő, G.-J. Y. Peters, A. Jeney, D. W. Shaffer, A. R. Ruis, & R. Crutzen “A Feasibility Study for a Unified, Multimodal Analysis of Online Information Foraging in Health-Related Topics,” *Open Research Europe* 3, no. 98 (2023).

Z. Swiecki, A. R. Ruis, C. Farrell, & D. W. Shaffer, “Assessing Individual Contributions to Collaborative Problem Solving: A Network Analysis Approach,” *Computers in Human Behavior* 104 (2020): 105876.

A. D. D’Angelo, A. R. Ruis, W. Collier, D. W. Shaffer, & C. M. Pugh, “Evaluating How Residents Talk and What It Means for Surgical Performance in the Simulation Lab,” *American Journal of Surgery* 220, no. 1 (2020): 37–43.

Z. Swiecki, A. R. Ruis, D. Gautam, V. Rus, & D. W. Shaffer, “Understanding When Students Are Active-in-Thinking through Modeling-in-Context,” *British Journal of Educational Technology* 50, no. 5 (2019): 2346–2364.

B. Wu, Y. Hu, A. R. Ruis, & M. Wang, “Analysing Computational Thinking in Collaborative Programming: A Quantitative Ethnography Approach,” *Journal of Computer Assisted Learning* 35, no. 3 (2019): 421–434.

A. R. Ruis, A. A. Rosser, C. Quandt-Walle, J. N. Nathwani, D. W. Shaffer, & C. M. Pugh, “The Hands and Head of a Surgeon: Modeling Operative Competency with Multimodal Epistemic Network Analysis,” *American Journal of Surgery* 216, no. 5 (2018): 835–840.

S. Andrist, A. R. Ruis, & D. W. Shaffer, “A Network Analytic Approach to Gaze Coordination during a Collaborative Task,” *Computers in Human Behavior* 89 (2018): 339–348.

S. A. Sullivan, C. Warner-Hillard, B. R. Eagan, R. Thompson, A. R. Ruis, K. Haines, C. M. Pugh, D. W. Shaffer, & H. Jung, “Using Epistemic Network Analysis to Identify Targets for Educational Interventions in Trauma Team Communication,” *Surgery* 163, no. 4 (2018): 938–943.

- A. L. Siebert Evenstone, G. Arastoopour, W. Collier, Z. Swiecki, A. R. Ruis, & D. W. Shaffer, "In Search of Conversational Grain Size: Modeling Semantic Structure using Moving Stanza Windows," *Journal of Learning Analytics* 4, no. 3 (2017): 123–139.
- J. Saucerman, A. R. Ruis, & D. W. Shaffer, "Automating the Detection of Reflection-on-Action," *Journal of Learning Analytics* 4, no. 2 (2017): 207–234.
- S. A. Sullivan, A. R. Ruis, & C. M. Pugh, "Procedural Simulations and Reflective Practice: Meeting the Need," *Journal of Laparoscopic and Advanced Surgical Techniques* 27, no. 5 (2017): 455–458.
- A. R. Ruis & D. W. Shaffer, "Annals and Analytics: The Practice of History in the Age of Big Data," *Medical History* 61, no. 2 (2017): 336–339.
- D. W. Shaffer, W. Collier, & A. R. Ruis, "A Tutorial on Epistemic Network Analysis: Analyzing the Structure of Connections in Cognitive, Social, and Interaction Data," *Journal of Learning Analytics* 3, no. 3 (2016): 9–45.
- A. R. Ruis, D. W. Shaffer, D. K. Shirley, & N. Safdar, "Teaching Health Care Workers to Adopt a Systems Perspective for Improved Control and Prevention of Health Care-Associated Infections," *American Journal of Infection Control* 44, no. 11 (2016): 1360–1364.
- G. Arastoopour, D. W. Shaffer, Z. Swiecki, A. R. Ruis, & N. C. Chesler, "Teaching and Assessing Engineering Design Thinking with Virtual Internships and Epistemic Network Analysis," *International Journal of Engineering Education* 32, no. 3B (2016): 1492–1501.
- N. Safdar, A. R. Ruis, D. K. Shirley, & N. Fost, "Should Trainees be Involved in the Direct Care of Patients with Ebola Virus Disease?" *AMEE MedEdPublish* 5, no. 1 (2016).
- D. W. Shaffer, P. Nash, & A. R. Ruis, "Technology and the New Professionalization of Teaching," *Teachers College Record* 117, no. 12 (2015): 1–30.
- A. R. Ruis, "'The Penny Lunch Has Spread Faster Than the Measles': Children's Health and the Debate over School Lunches in New York City, 1908–1930," *History of Education Quarterly* 55, no. 2 (2015): 190–217.
- A. R. Ruis, "Pomegranate and the Mediation of Balance in Early Medicine," *Gastronomica: The Journal of Critical Food Studies* 15, no. 1 (2015): 22–33.
- N. C. Chesler, A. R. Ruis, W. Collier, Z. Swiecki, G. Arastoopour, & D. W. Shaffer, "A Novel Paradigm for Engineering Education: Virtual Internships with Individualized Mentoring and Assessment of Engineering Thinking," *Journal of Biomechanical Engineering* 137, no. 2 (2015): 024701.
- A. R. Ruis, "'Children with Half-Starved Bodies' and the Assessment of Malnutrition in the United States, 1890–1950," *Bulletin of the History of Medicine* 87, no. 3 (2013): 380–408.
- A. R. Ruis & R. N. Golden, "The Schism between Medical and Public Health Education: A Historical Perspective," *Academic Medicine* 83, no. 12 (2008): 1153–1157.

BOOK CHAPTERS

- T. Allali, P. Lopez-Merino, M. Miller, C. Bardford, S. Lloyd, & A. R. Ruis, "A Game of Change: Transformative Sustainability Assessment of Agri-Food Systems—History and Current Trends," in *Pathways for Food Democracy and Agrifood Justice in Territorial Food Systems*, eds. C. Lamine, D. Magda, T. Allali, T. Wright, J. Parot, J. Palm, & D. Guennoc (CRC Press, in press).
- D. W. Shaffer & A. R. Ruis, "Theories All the Way Across: The Role of Theory in Learning Analytics and the Case for Unified Methods," in *Theory Informing and Arising from Learning Analytics*, eds. K. Bartimote, S. Howard, & D. Gašević (Springer, 2025), 187–201.

- Y. Tan, Z. Swiecki, A. R. Ruis, & D. W. Shaffer, “Epistemic Network Analysis and Ordered Network Analysis in Learning Analytics,” in *Learning Analytics Methods and Tutorials: A Practical Guide Using R*, eds. S. López-Pernas & M. Saqr (Springer, 2024), 569–636.
- A. R. Ruis, “Weight, Height, and the Gendering of Nutritional Assessment,” in *Pink and Blue: Gender, Culture, and the Health of Children*, eds. E. Conis, S. Eder, & A. Medeiros (Rutgers University Press, 2021), 138–153.
- A. R. Ruis, “‘Trois Empreintes d’un Môme Cachet’: Toward a Historical Definition of Nutrition,” in *Viral Networks: Connecting Digital Humanities and Medical History*, eds. E. T. Ewing & K. Randall (VT Publishing, 2018), 185–215.
- M. DiMeo & A. R. Ruis, “Thinking about Sources as Data: Reflections on Epistemic Network Analysis as a Technique for Historical Research,” in *Viral Networks: Connecting Digital Humanities and Medical History*, eds. E. T. Ewing & K. Randall (VT Publishing, 2018), 113–135.
- A. R. Ruis, A. J. Hampton, B. S. Goldberg, & D. W. Shaffer, “Modeling Processes of Enculturation in Team Training,” in *Design Recommendations for Intelligent Tutoring Systems: Volume 6 – Team Tutoring*, eds. R. Sottolare, A. C. Graesser, X. Hu, & A. M. Sinatra (U.S. Army Research Laboratory, 2018), 45–51.
- D. W. Shaffer & A. R. Ruis, “Epistemic Network Analysis: A Worked Example of Theory-Based Learning Analytics,” in *Handbook of Learning Analytics*, eds. C. Lang, G. Siemens, A. Wise, & D. Gašević (Society for Learning Analytics Research, 2017), 175–187.
- D. W. Shaffer, A. R. Ruis, & A. C. Graesser, “Authoring Networked Learner Models in Complex Domains,” in *Design Recommendations for Intelligent Tutoring Systems: Volume 3 – Authoring Tools and Expert Modeling Techniques*, eds. R. Sottolare, A. C. Graesser, X. Hu, & K. Brawner (U.S. Army Research Laboratory, 2015), 179–191.

CONFERENCE PROCEEDINGS

- A. R. Ruis & S. B. Lee, eds., *Advances in Quantitative Ethnography: Second International Conference, ICQE 2020, Malibu, CA, USA, February 1-3, 2021, Proceedings* (Springer, 2021).
- A. R. Ruis & S. B. Lee, eds., *Second International Conference on Quantitative Ethnography: Conference Proceedings Supplement* (ISQE, 2021).

CONFERENCE PAPERS

- A. R. Ruis, Z. Cai, & D. W. Shaffer, “Subgroup Fairness in Multilingual Text Classification,” in *Advances in Quantitative Ethnography: 7th International Conference, ICQE 2025, Mexico City, Mexico, October 11–16, 2025, Proceedings*, eds. G. Carmona, C. Lima, M. J. Santos, H. Benítez, L. Montero-Moguel, & B. Galarza-Tohen (Springer, 2026), 85–101.
 🏆 Finalist for the Best Paper Award.
- B. R. Eagan, A. Onyewuenyi, D. W. Shaffer, & A. R. Ruis, “Research Leadership in the Context of Quantitative Ethnographic Work,” in *Advances in Quantitative Ethnography: Seventh International Conference, ICQE 2025, Mexico City, Mexico, October 12–15, 2025, Proceedings*, eds. G. Carmona (Springer, 2026), 37–51.
- D. W. Shaffer & A. R. Ruis, “Models All the Way Down: Discourse and Other Models in Quantitative Ethnography,” in *Advances in Quantitative Ethnography: 7th International Conference, ICQE 2025, Mexico City, Mexico, October 11–16, 2025, Proceedings*, eds. G. Carmona, C. Lima, M. J. Santos, H. Benítez, L. Montero-Moguel, & B. Galarza-Tohen (Springer, 2026), 3–20.
- A. R. Ruis & M. Misfeldt, “iPlan and Simulated Practice in Classroom Settings from a *Bildung* Perspective,” *Proceedings of the European Science Education Research Association* (2026).

- A. R. Ruis, Y. Tan, J. Brohinsky, B. Yang, Y. Wang, Z. Cai, & D. W. Shaffer, "Thin Data, Thick Description: Modeling Socio-Environmental Problem-Solving Trajectories in Localized Land-Use Simulations," in *Advances in Quantitative Ethnography: 5th International Conference, ICQE 2023, Melbourne, VIC, Australia, October 8–12, 2023, Proceedings*, eds. G. Arastoopour Irgens & S. Knight (Springer, 2023), 349–364.
 🏆 Finalist for the Best Paper Award.
- Y. Wang, A. R. Ruis, & D. W. Shaffer, "Qualitative Parameter Triangulation: A Formulated Approach to Parameterize Multimodal Models," in *Proceedings of the 6th Workshop on Leveraging Multimodal Data for Generating Meaningful Feedback (CROSSMMLA 2023)*, eds. D. Di Mitri, N. Srivastava, R. Martinez-Maldonado, M. Cukurova, & D. Spikol (SoLAR, 2023), 30–35.
- A. R. Ruis, "Quantitative Ethnography of Policy Ecosystems: A Case Study on Climate Change Adaptation Planning," in *Advances in Quantitative Ethnography: 4th International Conference, ICQE 2022, Copenhagen, Denmark, October 15–19, 2022, Proceedings*, eds. C. Damşa & A. Barany (Springer, 2023), 414–428.
- D. W. Shaffer & A. R. Ruis, "Is QE Just ENA?" in *Advances in Quantitative Ethnography: 4th International Conference, ICQE 2022, Copenhagen, Denmark, October 15–19, 2022, Proceedings*, eds. C. Damşa & A. Barany (Springer, 2023), 71–86.
- J. Choi, A. R. Ruis, Z. Cai, B. R. Eagan, & D. W. Shaffer, "Does Active Learning Reduce Human Coding?: A Systematic Comparison of a Neural Network with nCoder," in *Advances in Quantitative Ethnography: 4th International Conference, ICQE 2022, Copenhagen, Denmark, October 15–19, 2022, Proceedings*, eds. C. Damşa & A. Barany (Springer, 2023), 30–42.
- Y. Tan, A. R. Ruis, C. L. Marquart, Z. Cai, M. Knowles, & D. W. Shaffer, "Ordered Network Analysis," in *Advances in Quantitative Ethnography: 4th International Conference, ICQE 2022, Copenhagen, Denmark, October 15–19, 2022, Proceedings*, eds. C. Damşa & A. Barany (Springer, 2023), 101–116.
- Y. Wang, A. R. Ruis, & D. W. Shaffer, "Modeling Collaborative Discourse with ENA using a Probabilistic Function," in *Advances in Quantitative Ethnography: 4th International Conference, ICQE 2022, Copenhagen, Denmark, October 15–19, 2022, Proceedings*, eds. C. Damşa & A. Barany (Springer, 2023), 132–145.
- M. Shah, S. Jung, A. R. Ruis, & A. Wooldridge, "Communicating QE: A Two-Part Resource for Quantitative Ethnographers in Health Education and Health Care Contexts (Part 1 of 2)," in *Fourth International Conference on Quantitative Ethnography: Conference Proceedings Supplement*, eds. C. Damşa & A. Barany (ISQE, 2022), 123–127.
- A. R. Ruis, A. Wooldridge, M. Shah, & S. A. Jung, "Communicating QE: A Two-Part Resource for Quantitative Ethnographers in Health Education and Health Care Contexts (Part 2 of 2)," in *Fourth International Conference on Quantitative Ethnography: Conference Proceedings Supplement*, eds. C. Damşa & A. Barany (ISQE, 2022), 108–112.
- A. R. Ruis, A. L. Siebert Evenstone, J. Brohinsky, Y. Tan, C. L. Hinojosa, Z. Cai, C. L. Marquart, T. J. Lark, C. Barford, & D. W. Shaffer, "Localizing Socio-Environmental Problem Solving," in *International Collaboration toward Educational Innovation for All: Overarching Research, Development, and Practices: 15th International Conference on Computer-Supported Collaborative Learning (CSCL) 2022*, eds. A. Weinberger, W. Chen, D. Hernández-Leo, & B. Chen (ISLS, 2022), 459–462.
- Y. Tan, C. L. Hinojosa, C. L. Marquart, A. R. Ruis, & D. W. Shaffer, "Epistemic Network Analysis Visualization," in *Advances in Quantitative Ethnography: Third International Conference, ICQE 2021, Virtual Event, November 6–9, 2021, Proceedings*, eds. B. Wasson & S. Zörgő (Springer, 2021), 129–143.
- D. W. Shaffer, B. R. Eagan, C. L. Hinojosa, C. L. Marquart, Y. Wang, J. Choi, Y. Tan, Z. Cai, & A. R. Ruis, "Cyberinfrastructure for a Transmethodological Research Community," in *Third International Conference on Quantitative Ethnography: Conference Proceedings Supplement*, eds. B. Wasson & S. Zörgő (ISQE, 2021), 163–168.

- J. Boisvenue, H. Jung, S. A. Jung, V. Popov, A. R. Ruis, A. Wooldridge, & S. Zörgő, “Considerations for the Use of Quantitative Ethnography in Healthcare,” in *Third International Conference on Quantitative Ethnography: Conference Proceedings Supplement*, eds. B. Wasson & S. Zörgő (ISQE, 2021), 155–161.
- J. Choi, Z. Cai, C. L. Marquart, A. R. Ruis, & D. W. Shaffer, “When Data Interleaves and Intersects: Threaded Epistemic Network Analysis,” in *Third International Conference on Quantitative Ethnography: Conference Proceedings Supplement*, eds. B. Wasson & S. Zörgő (ISQE, 2021), 54–57.
- Y. Wang, Z. Swiecki, A. R. Ruis, & D. W. Shaffer, “Simplification of Epistemic Networks Using Parsimonious Removal with Interpretive Alignment,” in *Advances in Quantitative Ethnography: Second International Conference, ICQE 2020, Malibu, CA, USA, February 1–3, 2021, Proceedings*, eds. A. R. Ruis & S. B. Lee (Springer, 2021), 137–151.
- A. Fogel, Z. Swiecki, C. L. Marquart, Z. Cai, Y. Wang, J. Brohinsky, A. L. Siebert Evenstone, B. R. Eagan, A. R. Ruis, & D. W. Shaffer, “Directed Epistemic Network Analysis,” in *Advances in Quantitative Ethnography: Second International Conference, ICQE 2020, Malibu, CA, USA, February 1–3, 2021, Proceedings*, eds. A. R. Ruis & S. B. Lee (Springer, 2021), 122–136.
- J. Brohinsky, C. L. Marquart, J. Wang, A. R. Ruis, & D. W. Shaffer, “Trajectories in Epistemic Network Analysis,” in *Advances in Quantitative Ethnography: Second International Conference, ICQE 2020, Malibu, CA, USA, February 1–3, 2021, Proceedings*, eds. A. R. Ruis & S. B. Lee (Springer, 2021), 106–121.
- S. Zörgő, Z. Swiecki, & A. R. Ruis, “Exploring the Effects of Segmentation on Semi-Structured Interview Data with Epistemic Network Analysis,” in *Advances in Quantitative Ethnography: Second International Conference, ICQE 2020, Malibu, CA, USA, February 1–3, 2021, Proceedings*, eds. A. R. Ruis & S. B. Lee (Springer, 2021), 78–90.
 🏆 Winner of the Best Paper Award.
- D. W. Shaffer & A. R. Ruis, “How We Code,” in *Advances in Quantitative Ethnography: Second International Conference, ICQE 2020, Malibu, CA, USA, February 1–3, 2021, Proceedings*, eds. A. R. Ruis & S. B. Lee (Springer, 2021), 62–77.
- S. A. Jung, V. Popov, A. R. Ruis, A. Wooldridge, & S. Zörgő, “Quantitative Ethnography in the Clinic,” in *Second International Conference on Quantitative Ethnography: Conference Proceedings Supplement*, eds. A. R. Ruis & S. B. Lee (ISQE, 2021), 92–98.
- A. R. Ruis, A. A. Rosser, J. N. Nathwani, M. V. Beems, S. A. Jung, & C. M. Pugh, “Multiple Uses for Procedural Simulators in Continuing Medical Education Contexts,” in *Advances in Quantitative Ethnography: First International Conference, ICQE 2019, Madison, WI, USA, October 20–22, 2019, Proceedings*, eds. B. R. Eagan, M. Misfeldt, & A. L. Siebert Evenstone (Springer, 2019), 211–222.
- Z. Swiecki, C. Marquart, A. Sachar, C. Hinojosa, A. R. Ruis, & D. W. Shaffer, “Designing an Interface for Sharing Quantitative Ethnographic Research Data,” in *Advances in Quantitative Ethnography: First International Conference, ICQE 2019, Madison, WI, USA, October 20–22, 2019, Proceedings*, eds. B. R. Eagan, M. Misfeldt, & A. L. Siebert Evenstone (Springer, 2019), 334–341.
- A. R. Ruis, A. L. Siebert Evenstone, R. Pozen, B. R. Eagan, & D. W. Shaffer, “Finding Common Ground: A Method for Measuring Recent Temporal Context in Analyses of Complex, Collaborative Thinking,” in *A Wide Lens: Combining Embodied, Enactive, Extended, and Embedded Learning in Collaborative Settings: 13th International Conference on Computer-Supported Collaborative Learning (CSCL) 2019*, eds. K. Lund, G. Niccolai, E. Lavoué, C. Hmelo-Silver, G. Gweon, & M. Baker (ISLS, 2019), 136–143.
 🏆 Winner of the Best Paper Award.
- H. Sung, S. Cao, A. R. Ruis, & D. W. Shaffer, “Reading for Breadth, Reading for Depth: Understanding the Relationship between Reading and Complex Thinking using Epistemic Network Analysis,” in *A Wide Lens: Combining Embodied, Enactive, Extended, and Embedded Learning in Collaborative Settings: 13th International*

- Conference on Computer-Supported Collaborative Learning (CSCL) 2019*, eds. K. Lund, G. Niccolai, E. Lavoué, C. Hmelo-Silver, G. Gweon, & M. Baker (ISLS, 2019), I:376–383.
- Z. Swiecki, Z. Lian, A. R. Ruis, & D. W. Shaffer, “Does Order Matter? Investigating Sequential and Cotemporal Models of Collaboration,” in *A Wide Lens: Combining Embodied, Enactive, Extended, and Embedded Learning in Collaborative Settings: 13th International Conference on Computer-Supported Collaborative Learning (CSCL) 2019*, eds. K. Lund, G. Niccolai, E. Lavoué, C. Hmelo-Silver, G. Gweon, & M. Baker (ISLS, 2019), I:112–119.
- Z. Swiecki, A. R. Ruis, & D. W. Shaffer, “Modeling and Visualizing Team Performance Using Epistemic Network Analysis,” in *Proceedings of the 7th Annual Generalized Intelligent Framework for Tutoring (GIFT) Users Symposium*, ed. B. S. Goldberg (U.S. Army Combat Capabilities Development Command, 2019), 148–156.
- A. R. Ruis, A. L. Siebert Evenstone, R. Pozen, B. R. Eagan, & D. W. Shaffer, “A Method for Determining the Extent of Recent Temporal Context in Analyses of Complex, Collaborative Thinking,” in *Rethinking Learning in the Digital Age: Making the Learning Sciences Count, 13th International Conference of the Learning Sciences (ICLS) 2018*, eds. J. Kay & R. Luckin (ISLS, 2018), III:1625–1626.
- B. R. Eagan, B. Rogers, R. Serlin, A. R. Ruis, G. Arastoopour, & D. W. Shaffer, “Can We Rely on Reliability? Testing the Assumptions of Inter-Rater Reliability,” in *Making a Difference: Prioritizing Equity and Access in CSCL: 12th International Conference on Computer-Supported Collaborative Learning*, eds. B. K. Smith, M. Borge, E. Mercier, & K. Y. Lim (ISLS, 2017), II:529–532.
- W. Collier, A. R. Ruis, & D. W. Shaffer, “Local versus Global Connection Making in Discourse,” in *Transforming Learning, Empowering Learners: 12th International Conference of the Learning Sciences (ICLS) 2016*, eds. C.-K. Looi, J. Polman, U. Cress, & P. Reimann (ISLS, 2016), I:426–433.
- A. L. Siebert Evenstone, G. Arastoopour, W. Collier, Z. Swiecki, A. R. Ruis, & D. W. Shaffer, “In Search of Conversational Grain Size: Modeling Semantic Structure using Moving Stanza Windows,” in *Transforming Learning, Empowering Learners: 12th International Conference of the Learning Sciences (ICLS) 2016*, eds. C.-K. Looi, J. Polman, U. Cress, & P. Reimann (ISLS, 2016), I:631–638.

ENCYCLOPEDIA ENTRIES

- A. R. Ruis, “Public Health Nutrition in the United States,” in *Oxford Research Encyclopedia of Food Studies*, ed. D. Goldstein (Oxford University Press, 2025).
- A. R. Ruis, “Nutrition Classes and Clinics,” in *The Oxford Encyclopedia of Food and Drink in America*, 2nd Edition, ed. A. F. Smith (Oxford University Press, 2012), 723–725.

TECHNICAL REPORTS

- D. W. Shaffer, F. Borden, A. Srinivasan, J. Saucerman, G. Arastoopour, W. Collier, A. R. Ruis, & K. A. Frank, “The *nCoder*: A Technique for Improving the Utility of Inter-Rater Reliability Statistics,” Epistemic Games Group Working Paper 2015-01 (2015).

SOFTWARE APPLICATIONS

- A. R. Ruis, A. L. Siebert Evenstone, J. Brohinsky, C. Barford, J. Klein, C. L. Hinojosa, V. Dumas, Z. Cai, J. Núñez Ares, B. Tian, M. Bougie, C. Ramakrishnan, K. Vachuska, J. Signorella, L. Marshall, A. Dohan, K. Scopinich, C. L. Marquart, T. J. Lark, J. T. Linderoth, & D. W. Shaffer, *iPlan* Version 1.0 (2020): <https://app.i-plan.us>
- Z. Swiecki, A. Sachar, C. Marquart, C. Hinojosa, A. R. Ruis, & D. W. Shaffer, *Game of Thrones Epistemic Network Analysis (GoTena)* Version 1.0 (2019): <https://got.epistemicnetwork.org>

- Review of Lana Dee Povitz, *Stirrings: How Activist New Yorkers Ignited a Movement for Food Justice* (University of North Carolina Press, 2019), *Journal of American History* 108, no. 2 (2021): 425–426.
- Review of Tom Scott-Smith, *On an Empty Stomach: Two Hundred Years of Hunger Relief* (Cornell University Press, 2020), *Bulletin of the History of Medicine* 95, no. 2 (2021): 259–261.
- Review of Diana Brown, *The Unconventional Career of Dr. Muriel Bell* (Otago University Press, 2018), *Bulletin of the History of Medicine* 94, no. 1 (2020): 170–171.
- Review of Catherine Gidney, *Captive Audience: How Corporations Invaded Our Schools* (Between the Lines, 2019), *Alberta Journal of Education Research* 65, no. 4 (2019): 383–384.
- Review of Christy Ford Chapin, *Ensuring America's Health: The Public Creation of the Corporate Health Care System* (Cambridge University Press, 2015), *Journal of American History* 104, no. 2 (2017): 544–545.
- Review of George Veletsianos, ed., *Emergence and Innovation in Digital Learning: Foundations and Applications* (AU Press, 2016), *Alberta Journal of Educational Research* 63, no. 4 (2017): 412–413.
- Review of Matthew Smith, *Another Person's Poison: A History of Food Allergy* (Columbia University Press, 2015), *Bulletin of the History of Medicine* 90, no. 3 (2016): 571–572.
- Review of Ian Mosby, *Food Will Win the War: The Politics, Culture, and Science of Food on Canada's Homefront* (University of British Columbia Press, 2014), *War in History* 23, no. 2 (2016): 272–273.
- Review of David S. Jones, *Broken Hearts: The Tangled History of Cardiac Care* (Johns Hopkins University Press, 2013), *Journal of the History of Medicine and Allied Sciences* 70, no. 1 (2015): 160–163.
- Review of Richard A. Meckel, *Classrooms and Clinics: Urban Schools and the Protection and Promotion of Child Health, 1870–1930* (Rutgers University Press, 2013), *Social History of Medicine* 27, no. 4 (2014): 823–824.
- Review of Charlotte Biltekoff, *Eating Right in America: The Cultural Politics of Food and Health* (Duke University Press, 2013), *Medical History* 58, no. 3 (2014): 448–450.
- Review of R. Brian Howe & Katherine Covell, *Education in the Best Interests of the Child: A Children's Rights Perspective on Closing the Achievement Gap* (University of Toronto Press, 2013), *Alberta Journal of Educational Research* 60, no. 1 (2014): 226–228.
- Review of David Cantor, Christian Bonah, & Matthias Dörries, eds., *Meat, Medicine and Human Health in the Twentieth Century* (Pickering & Chatto, 2010), *Journal of the History of Medicine and Allied Sciences* 68, no. 4 (2013): 699–702.
- Review of Xaq Frohlich, *Accounting for Taste: Regulating Food Labeling in the 'Affluent Society,' 1945–1995* (Ph.D. Thesis, Massachusetts Institute of Technology, 2011), *Science Studies Dissertation Reviews* (2012).

OTHER PUBLICATIONS

- A. R. Ruis, “Have Crisis, Feed Kids,” *Nursing Clio* (4 November 2021).
- A. R. Ruis, “Universal School Lunches Have Enormous Potential—If the Program's Flaws Are Fixed,” *Washington Post* (2 September 2021).
- A. R. Ruis, “The Gastropolitics of School Lunch,” *Nursing Clio* (13 September 2017).
- A. R. Ruis, “Branding Bran: School Breakfasts as a Recipe for Healthy Children,” *H-Nutrition × The Recipes Project: What Is a Recipe?*, ed. K. A. Ehrenberger (20 June 2017).
- A. R. Ruis, “School Meals, Re-Accommodated,” *Remedia* (29 May 2017).

A. R. Ruis, "The Newer History of Nutrition," *H-Nutrition* (20 October 2016).

PRESENTATIONS & CONFERENCES

INVITED PRESENTATIONS

- "Climate Change Adaptation: Planning, Policy, and Education," Monona Public Library, Monona, Wisconsin, March 2025.
- "Etnografía Cuantitativa," Ceibal, Montevideo, Uruguay, February 2024.
- "School Meals and Public Health," *Food, Power, and Politics Roundtable*, Richard B. Russell Library for Political Research and Studies, University of Georgia, Athens (Online), October 2021.
- "The Bellwether Problem: Publishing the First QE Studies in a New Field" (with A. Wooldridge & S. A. Jung), *ISQE Webinar Series*, May 2021.
- "The Extinction of the Lunchbox? The Promise and Perils of School Meals," Wisconsin Historical Society's Culinary History Enthusiasts of Wisconsin (CHEW), Madison, Wisconsin, June 2019.
- "Networked History: Developing Quantitative Models of Qualitative Phenomena," *Viral Networks, Reconnected*, National Library of Medicine, Bethesda, Maryland, April 2019.
- "Innovation and Adversity: The History of School Lunches in Wisconsin's Rural Schools," Wisconsin Historical Museum, Madison, Wisconsin, March 2019.
- "The Extinction of the Lunchbox? The Promise and Perils of School Meals," Oklahoma State University, Stillwater, February 2019.
- "Eating to Learn, Learning to Eat, and the Contested Role of School Meals in the United States" Spoon University's Lunch and Learn, University of Tulsa, Oklahoma, February 2019.
- "The Extinction of the Lunchbox? The Promise and Perils of School Meals," University of Oklahoma, Norman, February 2019.
- "Lunch Money: A Short, Abridged, Very Brief History of School Meals in America," *PechaKucha All-Star Event*, Monona Terrace, Madison, Wisconsin, November 2018.
- "Trois Empreintes d'un Môme Cachet': Toward a Historical Definition of Nutrition," *Viral Networks: An Advanced Workshop in Digital Humanities and Medical History*, National Library of Medicine, Bethesda, Maryland, January 2018.
- "Nourishing Immunity: Pretubercular Children, Risk, and Well Child Care in the Early 20th Century," *Shifting Temporalities in Biomedicine*, Station Biologique de Roscoff, France, October 2013.
- "Often Filled, Seldom Fed, Never Finished," *Epicuriosity x PechaKucha*, Monona Terrace, Madison, Wisconsin, April 2013.
- "Children with Half-Starved Bodies' and the Development of Public Health Nutrition in the United States, 1890–1950," University of Kansas Medical Center, Kansas City, April 2012.
- "One of the Greatest Evils in the Social Fabric': The Specter of Childhood Malnutrition in Interwar America," *The Rank Prize Conference on the Origins of the Science of Infant and Child Nutrition*, Windermere, United Kingdom, October 2007.
- 🏆 Winner of the Rank Prize for Best Paper by a Junior Researcher.

INVITED PANELS

“Science and Civics for Socio-Environmental Learning,” Rhode Island Environmental Education Association (Online), June 2025.

“Food, Power, and Politics Roundtable,” Richard B. Russell Library for Political Research and Studies, University of Georgia, Athens (Online), October 2021.

CONFERENCE PRESENTATIONS

“Subgroup Fairness in Multilingual Text Classification,” *International Conference on Quantitative Ethnography*, Mexico City, Mexico, October 2025.

“iPlan and Simulated Practice in Classroom Settings from a *Bildung* Perspective,” *Biennial Meeting of the European Science Education Research Association*, Copenhagen, Denmark, August 2025.

“Locked In: Food Production, Land Use, and Supply Chains in the Upper Midwest” (with C. Barford, A. Bierbrauer, & M. Miller), *Annual Meeting of the Rural Sociological Society*, Madison, Wisconsin, July 2024.

“iPlan: Creating Localized Land-Use Simulations for Place-Based Learning,” *Midwest Environmental Education Conference*, La Crosse, Wisconsin, November 2023.

“Thin Data, Thick Description: Modeling Socio-Environmental Problem-Solving Trajectories in Localized Land-Use Simulations,” *International Conference on Quantitative Ethnography*, Melbourne, Australia, October 2023.

“Subgroup Fairness in Multilingual Text Classification: Challenges for Analyzing Global Climate Change Adaptation Policy Ecosystems,” *Annual Meeting of the Association for Computers and the Humanities*, Online, June–July 2023.

“Quantitative Ethnography of Policy Ecosystems: A Case Study on Climate Change Adaptation Planning,” *International Conference on Quantitative Ethnography*, Copenhagen, Denmark, October 2022.

“Modeling Collaborative Discourse with ENA using a Probability Approach,” *International Conference on Quantitative Ethnography*, Copenhagen, Denmark, October 2022.

“Exploring Epistemic Learning Simulations for Engaging in Real World Issues,” *Play Make Learn Conference*, Madison, Wisconsin, August 2022.

“Localizing Socio-Environmental Problem Solving,” *International Conference on Computer-Supported Collaborative Learning*, Online, June 2022.

“iPlan: A Flexible Platform for Exploring Complex Land-Use Issues,” *Frontiers in Playful Learning*, University of Connecticut, Storrs, June 2022.

“Epistemic Network Analysis: A Technique for Modeling Discourse Networks in Historical Source Material,” *Historical Networks – Réseaux Historiques – Historische Netzwerke*, Online, July 2021.

“How We Code,” *International Conference on Quantitative Ethnography*, Online, February 2021.

“Multiple Uses for Procedural Simulators in Continuing Medical Education Contexts,” *International Conference on Quantitative Ethnography*, Madison, Wisconsin, October 2019.

“Merging Close Reading with Computational Analysis of Text: The *nCoder* as a Tool for Digital Hermeneutics,” *Digital Hermeneutics: From Research to Dissemination*, German Historical Institute, Washington, D.C., October 2019.

“Finding Common Ground: A Method for Measuring Recent Temporal Context in Analyses of Complex, Collaborative Thinking,” *International Conference on Computer-Supported Collaborative Learning*, Lyon, France, June 2019.

“Can Discourse Analysis Predict Surgical Outcomes? Evaluating How We Talk in the Operating Room and What It Means,” Plenary Presentation, Joint Session of the *Annual Meeting of the Association of Program Directors in Surgery* and the *Annual Meeting of the Association for Surgical Education*, Chicago, Illinois, April 2019.

“An Introduction to Epistemic Network Analysis as a Technique for Historical Research,” *Reconstructing Historical Networks Digitally: New Approaches, Opportunities and Epistemological Implications of Social Network Analysis*, German Historical Institute, Washington, D.C., October 2018.

“Sins, Gross Exaggerations, and Misconceptions’: The Many Faces of Nutrition,” *Annual Meeting of the Agriculture, Food, and Human Values Society and the Association for the Study of Food and Society*, Madison, Wisconsin, June 2018.

“Predicting the Extinction of the Lunchbox, or, When School Lunch Was Modern,” *Annual Meeting of the Agriculture, Food, and Human Values Society and the Association for the Study of Food and Society*, Madison, Wisconsin, June 2018.

“The Hands and Head of a Surgeon: Modeling Operative Competency with Multimodal Epistemic Network Analysis,” Plenary Presentation, Joint Session of the *Annual Meeting of the Association of Program Directors in Surgery* and the *Annual Meeting of the Association for Surgical Education*, San Diego, California, April 2017.

“Trois Empreintes d’un Môme Cachet’: Toward a Historical Definition of Nutrition,” *Annual Meeting of the American Association for the History of Medicine*, Minneapolis, Minnesota, May 2016.

“Commentary and Reflections on the History of the Questionnaire in Social Science Research,” *Annual Meeting of the History of Science Society*, Chicago, Illinois, November 2014.

“Le Feu qui Couve, qui Peut s’Étendre’: Pretuberculosis, Latency, and Medical Epistemology in the Early 20th Century,” *Annual Meeting of the American Association for the History of Medicine*, Chicago, Illinois, May 2014.

“Children with Half-Starved Bodies’ and the Creation of Public Health Nutrition in the United States, 1890–1950,” *Annual Meeting of the American Association for the History of Medicine*, Baltimore, Maryland, April 2012.

“School Lunches Go Public: Feeding Children at Public Expense in the United States, 1900–1946,” *Midwest Junto for the History of Science*, Linda Hall Library, Kansas City, Missouri, March 2009.

“The Extinction of the Lunch Box? School Foodservice and Public Health Nutrition in the United States, 1900–1946,” *Tasting Histories: Food and Drink Cultures through the Ages*, Robert Mondavi Institute, University of California, Davis, February 2009.

“Trying to Educate Children with Half-Starved Bodies’: School Foodservice and Malnutrition in the United States, 1918–1946,” *MEPHISTOS*, University of California, Los Angeles, April 2007.

CAMPUS PRESENTATIONS

“*iPlan*: Socio-Environmental Problem-Solving with Localized Land-Use Simulations,” Center for Climatic Research & Center for Sustainability and the Global Environment Lightning Talks, University of Wisconsin–Madison, March 2025.

“Predicting the Extinction of the Lunchbox, or, When School Lunch Was Modern,” *Food Studies Research Forum*, University of Wisconsin–Madison, February 2018.

“Thinking beyond the Dissertation, or How to Prepare for a Career off the Tenure Track,” Department of History of Science, University of Wisconsin–Madison, March 2015.

“Food Assistance Programs in the United States: History, Policy, and Ethics,” *Interprofessional Health Leadership Summit*, School of Medicine and Public Health, University of Wisconsin–Madison, March 2014.

- “Nutrition and the Health Department in the History and Historiography of American Public Health,” *One Woman’s Labor: Judith Leavitt’s Academic Contributions and Influence on the Profession*, University of Wisconsin–Madison, October 2010.
- “In Defense of (School) Food: Public Health, Private Rights, and the Law, 1900–1946,” History of Science, Medicine, and Technology Colloquium, University of Wisconsin–Madison, March 2010.
- “Eating to Learn, Learning to Eat: School Foodservice and Nutrition in Early 20th-Century America,” *It’s Good For You! 100 Years of the Art and Science of Eating*, University of Wisconsin–Madison, October 2009.
- “The Role of History in Public Health Policy and Practice,” *Innovations in Population Health Teaching and Research*, Robert Wood Johnson Foundation Health & Society Symposium, University of Wisconsin–Madison, April 2009.

POSTER PRESENTATIONS

- “iPlan: A Platform for Developing Localized Simulations to Support Interactive Learning about Climate Change,” National Science Foundation Discovery Research PreK–12 PI Meeting, Alexandria, Virginia, June 2025.
- “Communicating QE: A Resource for Quantitative Ethnographers in Health Education and Health Care Contexts,” *International Conference on Quantitative Ethnography*, Copenhagen, Denmark, October 2022.
- “Environmental Civics Education with Localized Land-Use Models,” National Science Foundation Advancing Informal STEM Learning PI Meeting, Alexandria, Virginia, February 2019.
- “Modeling Operative Thinking in a Simulation-Based Continuing Medical Education Course on Laparoscopic Hernia Repair,” *Annual ACS Surgical Simulation Meeting*, Chicago, Illinois, March 2017.

PANELS

- “Allgemeinbildung as a Perspective on STEM Education,” *Biennial Meeting of the European Science Education Research Association*, Copenhagen, Denmark, August 2025.
- “Considerations for the Use of Quantitative Ethnography in Healthcare,” *International Conference on Quantitative Ethnography*, Online, November 2021.
- “Medicalizing the History Survey Course: Tools and Methods for Lower-Division Courses,” *Annual Meeting of the American Association for the History of Medicine*, Online, May 2021.
- “Quantitative Ethnography in the Clinic,” *International Conference on Quantitative Ethnography*, Online, February 2021.
- “Further Fields: Introducing Quantitative Ethnographic Methods to New Academic Disciplines and Research Areas,” *International Conference on Quantitative Ethnography*, Madison, Wisconsin, October 2019.
- “#FoodStudies Workshop: Social Media for Scholarship, Networking, and the Community,” *Annual Meeting of the Agriculture, Food, and Human Values Society and the Association for the Study of Food and Society*, Madison, Wisconsin, June 2018.
- “A Second Helping: Researching at the Intersection of Medical History and Food Studies,” *Annual Meeting of the American Association for the History of Medicine*, Los Angeles, California, May 2018.

CONFERENCE & WORKSHOP FACILITATION

- Moderator, “Politics,” *International Conference on Quantitative Ethnography*, Mexico City, Mexico, October 2025.
- Co-Organizer (with B. R. Eagan), “Introduction to (Automated) Coding in Quantitative Ethnography,” *International Conference on Quantitative Ethnography*, Mexico City, Mexico, October 2025.

- Co-Organizer (with A. Barany, Z. Swiecki, A. L. Traxler, J. Bruun, L. Nøhr, & M. Misfeldt), “Quantitative Ethnography for Science Education,” *Biennial Meeting of the European Science Education Research Association*, Copenhagen, Denmark, August 2025.
- Co-Organizer (with J. D. Stoddard), “iPlan: A Simulation-Based Approach to Environmental Civics,” *Early Career Teaching Institute*, University of Wisconsin–Madison, July 2025.
- Co-Organizer (with B. R. Eagan, D. Espino, R. Kaliisa, A. Onyewuenyi, & D. W. Shaffer), “Quantitative Ethnography Summer Institute,” QE Fellows Program, University of Wisconsin–Madison, July 2025.
- Co-Organizer (with Y. Wang, B. R. Eagan, & D. W. Shaffer), “Transmodal Analysis: A New Conceptual and Methodological Framework for Multimodal Learning Analytics,” *Learning Analytics and Knowledge Conference*, Dublin, Ireland, March 2025.
- Moderator, “Public Discourse and Social Media,” *International Conference on Quantitative Ethnography*, Philadelphia, Pennsylvania, November 2024.
- Organizer, “Introduction to (Automated) Coding in Quantitative Ethnography,” *International Conference on Quantitative Ethnography*, Philadelphia, Pennsylvania, November 2024.
- Co-Organizer (with A. Barany, G. Carmona, B. R. Eagan, A. Onyewuenyi, & D. W. Shaffer), “Quantitative Ethnography Summer Institute,” QE Fellows Program, University of Wisconsin–Madison, July 2024.
- Mentor, *Annual QE Community Data Challenge: Transparency in Best Practices and Challenges*, International Society for Quantitative Ethnography, Online, April 2024.
- Discussant, Evan Roberts, “Young but Daily Growing? The Decline of Stunting and Growth Faltering in the United States, 1857-2014,” *Health and the Urban Environment Working Group*, Consortium for the History of Science, Technology, & Medicine, Online, March 2024.
- Co-Organizer (with B. R. Eagan), “Introduction to Epistemic Network Analysis” and “Introduction to (Automated) Coding in Quantitative Ethnography,” Ceibal, Montevideo, Uruguay, February 2024.
- Co-Organizer (with Y. Tan & B. R. Eagan), “Introduction to (Automated) Coding in Quantitative Ethnography,” *International Conference on Quantitative Ethnography*, Melbourne, Australia, October 2023.
- Co-Organizer (with G. Arastoopour Irgens, B. R. Eagan, D. Espino, S. B. Lee, & D. W. Shaffer), “Quantitative Ethnography Summer Institute,” QE Fellows Program, University of Wisconsin–Madison, July 2023.
- Mentor, “Global Design Challenge: Digital Anthropology,” LiV Center, UNESCO, Online, October 2022.
- Moderator, “Quantitative Ethnography of and for Policy and Practice,” *International Conference on Quantitative Ethnography*, Copenhagen, Denmark, October 2022.
- Mentor, *Annual QE Community Data Challenge*, International Society for Quantitative Ethnography, Online, April 2022.
- Moderator, “ENA . . . and Beyond!” *International Conference on Quantitative Ethnography*, Online, November 2021.
- Planning Team & Mentor, *QE Data Challenge*, International Society for Quantitative Ethnography, Online, April 2021.
- Co-Organizer (with J. Signorella), “Learning in Place: Interactive Land-Use Simulation for Middle and High School Students,” *Annual Meeting of the Massachusetts Environmental Education Society*, Online, March 2021.
- Co-Organizer (with D. W. Shaffer), “Advanced ENA and Interpretations Workshop,” *QEurious Meetup*, International Society for Quantitative Ethnography, Online, November 2020.
- Planning Team & Mentor, *QE Data Challenge*, International Society for Quantitative Ethnography, Online, April 2020.

- Co-Organizer (with M. Misfelt, D. Spikol, J. Bruun, M. Saqr, R. Kaliisa, B. R. Eagan, & K. Misiejuk), “Quantitative Ethnography as a Framework for Network Analysis—A Discussion of the Foundations for Network Approaches to Learning Analysis,” *Learning Analytics and Knowledge Conference*, Online, March 2020.
- Moderator, “Analysis of Data from Healthcare Contexts,” *International Conference on Quantitative Ethnography*, Madison, Wisconsin, October 2019.
- Co-Organizer (with J. Steere-Williams), “Career Trajectories for Historians of Medicine: A Workshop for Graduate Students and Early Career Scholars,” *Annual Meeting of the American Association for the History of Medicine*, Los Angeles, California, May 2018.
- Discussant, “A Place at the Table: Researching at the Intersection of Medical History and Food Studies,” *Annual Meeting of the American Association for the History of Medicine*, Nashville, Tennessee, May 2017.
- Co-Organizer (with J. Steere-Williams), “Writing and Publishing: A Workshop for Graduate Students and Early Career Scholars,” *Annual Meeting of the American Association for the History of Medicine*, Nashville, Tennessee, May 2017.
- Moderator, “Research on Hunger and Nutrition in the First Half of the Twentieth Century,” *Annual Meeting of the American Association for the History of Medicine*, New Haven, Connecticut, May 2015.
- Discussant, “Documenting and Defining Human Subjects: Historical Reflections on the Questionnaire,” *Annual Meeting of the History of Science Society*, Chicago, Illinois, November 2014.
- Moderator, Breakout Session on Food Assistance Programs, *Interprofessional Health Leadership Summit*, School of Medicine and Public Health, University of Wisconsin–Madison, March 2014.
- Moderator, “Diet and Medicine,” *Annual Meeting of the American Association for the History of Medicine*, Atlanta, Georgia, May 2013.
- Moderator, “Popular Medical Texts,” *The Culture of Print in Science, Technology, Engineering, and Medicine*, Center for the History of Print in Modern America, University of Wisconsin–Madison, September 2008.

SERVICE

PROFESSIONAL SERVICE

Executive Committees

Health and Healthcare Special Interest Group, International Society for Quantitative Ethnography (2021–2024; Chair 2021–2024)

Annual Meetings Committee, American Association for the History of Medicine (2019–2023)

Education and Outreach Committee, American Association for the History of Medicine (2013–2019; Chair 2016–2019)

Organizational Advisory Boards

Kitchen Cabinet, The Henry Ford’s Farm to School Lunch Across America Program (2024–)

Nominator, [REDACTED] Program, [REDACTED] Foundation (2025)

Task Force on the Future of Meetings, American Association for the History of Medicine (2023–2024)

Ad Hoc Committee on Diversity and Inclusion, American Association for the History of Medicine (2018–2019)

Project Advisory Boards

“AHRC US-UK Food Digital Scholarship Network+,” PI C. J. Reynolds, U.K. Arts and Humanities Research Council (2019–2020)

Conference Committees

Planning Committee Member, *Midwest Climate Summit*, Madison, Wisconsin (2025)

Program Committee Member, *International Conference on Quantitative Ethnography*, Philadelphia, Pennsylvania (2024)

Program Committee Member, *International Conference on Quantitative Ethnography*, Copenhagen, Denmark (2022)

Program Committee Chair Emeritus, *International Conference on Quantitative Ethnography*, Online (2021)

Program Committee Chair, *International Conference on Quantitative Ethnography*, Online (2020)

Steering Committee Member, *International Conference on Quantitative Ethnography*, Madison, Wisconsin (2019)

Program Committee Member, *Annual Meeting of the Agriculture, Food, and Human Values Society and the Association for the Study of Food and Society*, Madison, Wisconsin (2018)

Program Coordinator, *Annual Meeting of the American Association for the History of Medicine*, Philadelphia, Pennsylvania (2011)

Subject Matter Expert

“Local Environmental Modeling,” Rhode Island Environmental Education Association (2023–2024)

“Lunchtime: The History of Science on the School Food Tray,” Science History Institute, Philadelphia, Pennsylvania (2023–2024)

e-Delphi Study, Virtual Internships Project, University of Cambridge (2020)

POM Wonderful, “A Fertile and Fascinating History,” <https://www.pomwonderful.com/history> (2013, 2017)

Carol Hand, *Epidemiology: The Fight against Ebola and Other Diseases* (Essential Library, 2015)

Online Curriculum Delivery, National Research Mentoring Network (2015)

EDITORIAL SERVICE

Book Series Editor

Repast—Studies in the History of Nutrition, Johns Hopkins University Press (2020–)

Editorial Boards

H-Nutrition (2016–)

Grant Proposal Review

Epilepsy Ireland

Great Plains Institutional Development Award – Clinical and Translational Research (IDeA-CTR)

National Science Foundation, Division of Computer and Network Systems

National Science Foundation, Division of Social and Economic Sciences

National Science Foundation, Division of Research on Learning

UNESCO, LiiV Center, Global Design Challenge: Digital Anthropology

Book Manuscript Review

Abdo Publishing

Academic Press

University of North Carolina Press

Journal Manuscript Review

American Journal of Epidemiology
Behavioral Sciences
Bulletin of the History of Medicine
Children & Society
Computer Science Education
Ecology of Food & Nutrition
Educational Researcher
Food Studies: An Interdisciplinary Journal
Frontiers in Education
Gastronomica: The Journal of Critical Food Studies
IEEE Transactions on Learning Technologies
International Journal of Communication & Linguistic Studies
International Journal of Environmental Research & Public Health
International Journal of Technology, Knowledge & Society
Isis, a Journal of the History of Science Society
Journal of Applied Communication Research
Journal of Critical Dietetics
Journal of Educational Computing Research
Journal of Learning Analytics
Journal of Pre-College Engineering Education Research
Journal of the History of the Behavioral Sciences
Learning & Individual Differences
Learning, Culture and Social Interaction
Multimodal Technologies & Interaction
The New Educator
Research in Science & Technological Education
Scandinavian Journal of Educational Research
Science in Context
The Surgery Journal
Technovation

Conference Manuscript Review

International Conference on Computer-Supported Collaborative Learning
International Conference on Quantitative Ethnography

Conference Abstract Review

Annual Meeting of the Association for Computers and the Humanities
Alliance of Digital Humanities Organizations Digital Humanities Conference
DH Unbound
GraphHNR

INSTITUTIONAL SERVICE

Steering Committees

- Food Studies Network, University of Wisconsin–Madison (2017–2019)
- Coordinated Leadership Initiative, University of Wisconsin–Madison (2015)

Advisory Committees

- Research Advisory Council, School of Education, University of Wisconsin–Madison (2026–)
- Board of Directors, Learning Analytics Capstone, Master of Science in Educational Psychology – Learning Analytics, University of Wisconsin–Madison (2024–)
- Investment Strategy Advisory Committee, Wisconsin Center for Education Research (2024)
- Reorganization Feedback Team, Wisconsin Center for Education Research (2021–2022)
- Director’s Advisory Council, Wisconsin Center for Education Research (2016–2018)
- Health Care Advisory Committee, University of Wisconsin–Madison (2014–2017)

Award Committees

- Selection Committee, Reid Bryson Scholarship, Center for Climatic Research, Nelson Institute for Environmental Studies (2026)
- Selection Committee, Chancellor’s Award for Excellence in Research – Critical Research Support, University of Wisconsin–Madison (2025–2026)

Search Committees

- Director of Research Administration Services, Wisconsin Center for Education Research (2023–2024)
- Director of Talent Management, Wisconsin Center for Education Research (2022–2023)
- Senior Editor, Wisconsin Center for Education Research (2019)
- Research and Technical Writer, Wisconsin Equity and Inclusion Laboratory (WeiLAB), Wisconsin Center for Education Research (2013)

TEACHING & ADVISING

COURSES TAUGHT

University of Wisconsin–Madison

- Current Topics in Learning Sciences (co-taught with D. W. Shaffer, 2018) | *Graduate*
- Health and Citizenship in Global Perspective (2014) | *Undergraduate*
- Health Care and Society in American History (2012) | *Undergraduate*

Cardinal Stritch University

- U.S. History since 1900 (2012, 2013) | *Undergraduate*
- Western Civilization II (2012) | *Undergraduate*
- Western Civilization I (2011, 2012) | *Undergraduate*

GUEST LECTURES

- “Qualitative Coding,” Quantitative Ethnography, D. W. Shaffer, University of Wisconsin–Madison (2025) | *Graduate*
- “Eating to Learn, Learning to Eat: The Origins of School Lunch in the United States,” History of Food, S. L. Figueroa, Boston University (2024) | *Graduate*

- “This Business of Food Chemistry’ and Other Elements of the History of Nutrition,” *The Periodic Table of Life*, J. Burstyn, University of Wisconsin–Madison (2022, 2023, 2024) | *Undergraduate*
- “Quantitative Ethnography in Health and Healthcare Contexts,” *Teamwork in Healthcare*, V. Popov, University of Michigan (2023) | *Graduate*
- “Academic Writing and Publishing,” *Current Topics in Learning Sciences*, D. W. Shaffer, University of Wisconsin–Madison (2022) | *Graduate*
- “The Past, Present, and Future of School Meals in the United States,” *Human Ecology of Food and Sustainability*, J. Gaddis, University of Wisconsin–Madison (2022) | *Undergraduate*
- “The Penny Lunch and the Origins of School Meals in the United States,” *School Nutrition and Food Equity*, S. Nelson & D. Suri, University of Wisconsin–Madison (2018, 2019) | *Undergraduate*

THESIS COMMITTEES

- S. B. Lee, “Examining Interaction, Collaboration, and Creativity in Informal Online Learning Environments: Social and Epistemic Network Analyses of Longitudinal Data from the Scratch Community” (Ph.D. Thesis, Pepperdine University, 2020).

CONTINUING EDUCATION

- Executive Coaching and Leadership Development, Living Giving Enterprises, 2026.
- Food Cultures*, Faculty Development Seminar, Center for the Humanities, University of Wisconsin–Madison, 2018.
- Viral Networks: An Advanced Workshop in Digital Humanities and Medical History*, National Library of Medicine, Bethesda, Maryland, January 2018.
- Surgical Education Research and Innovation Working Group*, University of Wisconsin–Madison, 2016–2017.
- Shifting Temporalities in Biomedicine*, International Summer School, Station Biologique de Roscoff, France, October 2013.
- Home Economics: Classroom, Corporate, and Cultural Interpretations Revisited*, State-of-the-Art Conference, University of Georgia, Athens, February 2012.

MEDIA

INTERVIEWS & MEDIA APPEARANCES

- “Here’s What We Learned from the January Jobs Report,” *Marketplace* (11 February 2026).
- “The History of the School Lunch,” *Distillations Podcast*, Science History Institute Museum & Library (2 June 2025).
- “American Schools Have Been Feeding Children for More Than 100 Years. Here’s How the School Lunch Has Changed,” *Smithsonian Magazine* (12 May 2025).
- “If You Think the School Lunch Battle is New—Go to Philadelphia,” *New York Times* (23 April 2025).
- “Making All School Lunches Free in NC Will Cut Hunger, Stigma and Paperwork,” *News & Observer* (19 March 2023).

“The Paradox of Plenty amid Hunger,” *Left Over: How Corporations and Politicians Are Milking the American School Lunch* (2023).

“Make Schools Meals Free for Everyone,” *Wisconsin State Journal* (14 March 2023).

“America’s School Lunch Crisis,” *Vox* (2 March 2023).

“What Stricter USDA Standards Would Mean for School Meals,” *Central Time*, Wisconsin Public Radio (20 February 2023).

“What’s Wrong with School Lunch in the U.S.?” *Eat This with Yara*, AJ+ (3 January 2023).

“Tackling Hunger and Nutrition Issues in the US,” *Central Time*, Wisconsin Public Radio (3 October 2022).

“As Universal Free School Meals End, Are Wisconsin Families Ready For It?” *Wisconsin Watch* (4 August 2022).

“School Lunch Menus Are Changing from Bland to Culturally Appropriate across NY and NJ,” *USA Today Network* (16 May 2022).

“Lunch Ladies’ Are Tired of Being Underpaid and Overlooked,” *Jacobin* (13 March 2022).

“Solving Real-World Problems with an Online Game,” *The Larry Meiller Show*, Wisconsin Public Radio (23 February 2022).

“Researchers Create Online Game That Lets Players Reimagine Land Use Based on Real Science,” *WisPolitics* (3 February 2022).

“The Paradoxical Pomegranate,” *JSTOR Daily* (24 November 2021).

“Waukesha and the National School Lunch Program,” *Central Time*, Wisconsin Public Radio (31 August 2021).

“Waukesha School Board Reverses Course, Takes Federal Money to Fund Free School Meals,” *WPR News*, Wisconsin Public Radio (30 August 2021).

“‘Home Front’ Efforts Between WWII and COVID-19 Crises,” *Refrangible*, Center for Design and Material Culture, University of Wisconsin–Madison (7 April 2021).

“USDA Expands Pandemic School Meal Access through the Summer,” *WPR News*, Wisconsin Public Radio (12 March 2021).

“‘Good News for All of Us’: Federal Waiver Extensions Allow MMSD to Keep Providing Free Meals to All Students,” *Cap Times* (4 September 2020).

“The Way We Eat: Where We Went Wrong with School Lunches,” WORT Community Radio (20 February 2020).

Author Interview with Carrie Tippen, *New Books Network* (10 December 2019).

“The Weirdly Untraceable Origin Story of Ants on a Log,” MSN (11 September 2019).

“From Hot Meals to PB&Js: The Realities of School Lunch Debt,” *IA*, National Public Radio (23 July 2019).

“Networked History: Developing Quantitative Models of Qualitative Phenomena,” *Circulating Now* (2 April 2019).

“American School Lunch Is Becoming More Diverse, Like It Was in the 1910s,” *Atlas Obscura* (21 March 2019).

“Eating to Learn, Learning to Eat: The Origins of School Lunch in the United States,” *SHCY Featured Books* (13 March 2019).

“The 30-Year Reign of Lunchables,” *The Atlantic* (17 November 2018).

“Hunger Hits Home: Food Insecurity Psychologically Impacts Students,” *The Daily Cardinal* (16 November 2018).

“How Big Brands Like Tyson and PepsiCo Profit from School Lunches,” CNBC (14 November 2018).

“From Mason Jars to Lunch Trays in Wisconsin’s Rural Schools: How Nutrition Became a Part of Public Education,” *WisContext* (24 August 2018).

“The Origins of School Lunch,” *Thinking Aloud*, BYU Radio (6 December 2017).

“What Difference Does a Healthy School Lunch Make?” *The Atlantic* (12 September 2017).

Author Interview with Emily Contois, emilycontois.com (12 September 2017).

“Lunch Gets Schooled,” *Gastropod* (11 September 2017).

BOOK BLURBS

D. Chansky & S. W. Tracy, eds., *Conversations with Food* (Vernon Press, 2020).