

# ANDREW R. RUIS

University of Wisconsin, Madison

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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

- 2012– Research Associate, Epistemic Games Group, Wisconsin Center for Education Research, University of Wisconsin, Madison  
2013– Fellow, Department of Medical History and Bioethics, School of Medicine and Public Health, University of Wisconsin, Madison  
*Secondary Affiliations:* Global Health Institute; Holtz Center for Science and Technology Studies

### 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 & 2014 Senior Lecturer, Department of Medical History and Bioethics, School of Medicine and Public Health, University of Wisconsin, Madison

## HONORS & AWARDS

- 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

Principal Investigator, “As Many Uses as Seeds: A Cultural History of the Pomegranate in Pre-Modern Medicine” (2012–2013)  
POM Wonderful Research Grant: \$6,000

Principal Investigator, “Eating to Learn, Learning to Eat: School Foodservice and Public Health Nutrition in Early Twentieth-Century America” (2008–2009)  
Robert Wood Johnson Foundation, Health and Society Scholars Dissertation Grant: \$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 (New Brunswick: Rutgers University Press, 2017).

Reviews: *The Lancet Child & Adolescent Health*; *Nursing Clio*; *Social History of Medicine*

### JOURNAL ARTICLES

A. L. Siebert-Evenstone, G. Arastoopour, W. Collier, Z. Swiecki, A. R. Ruis, & D. Williamson Shaffer, “In Search of Conversational Grain Size: Modeling Semantic Structure using Moving Stanza Windows,” *Journal of Learning Analytics* (2017): in press.

S. A. Sullivan, C. Warner-Hillard, B. R. Eagan, R. Thompson, A. R. Ruis, K. Haines, C. M. Pugh, D. Williamson Shaffer, & H. S. Jung, “Using Epistemic Network Analysis to Identify Targets for Educational Interventions in Trauma Team Communication,” *Surgery* (2017): in press.

J. Saucerman, A. R. Ruis, & D. Williamson 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. Williamson Shaffer, “Annals and Analytics: The Practice of History in the Age of Big Data,” *Medical History* 61, no. 2 (2017): 336–339.

D. Williamson 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. Williamson 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. Williamson 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. Williamson 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. Williamson 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): 024701-1–8.
- 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

- D. Williamson 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. Williamson 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 (Orlando: U.S. Army Research Laboratory, 2015), 179–191.

#### CONFERENCE PROCEEDINGS

- B. R. Eagan, B. Rogers, R. Serlin, A. R. Ruis, G. Arastoopour, & D. Williamson Shaffer, "Can We Rely on Reliability? Testing the Assumptions of Inter-Rater Reliability," *Making a Difference: Prioritizing Equity and Access in CSCL: 12<sup>th</sup> International Conference on Computer-Supported Collaborative Learning*, eds. B. K. Smith, M. Borge, E. Mercier, & K. Y. Lim (2017), II:529–532.
- W. Collier, A. R. Ruis, & D. Williamson Shaffer, "Local versus Global Connection Making in Discourse," in *Transforming Learning, Empowering Learners: The International Conference of the Learning Sciences (ICLS) 2016*, eds. C.-K. Looi, J. Polman, U. Cress, & P. Reimann (2016), I:426–433.  
🏆 Winner of the Naomi Miyake Best Student Paper Award.
- A. L. Siebert-Evenstone, G. Arastoopour, W. Collier, Z. Swiecki, A. R. Ruis, & D. Williamson Shaffer, "In Search of Conversational Grain Size: Modeling Semantic Structure using Moving Stanza Windows," in *Transforming Learning, Empowering Learners: The International Conference of the Learning Sciences (ICLS) 2016*, eds. C.-K. Looi, J. Polman, U. Cress, & P. Reimann (2016), I:631–638.  
🏆 Finalist for the Naomi Miyake Best Student Paper Award.

#### ENCYCLOPEDIA ENTRIES

A. R. Ruis, "Nutrition Classes and Clinics," in *The Oxford Encyclopedia of Food and Drink in America*, 2<sup>nd</sup> Edition, ed. A. F. Smith (Oxford: Oxford University Press, 2012), 723–725.

#### TECHNICAL REPORTS

D. Williamson 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 (University of Wisconsin, Madison, 2015).

#### BOOK & MEDIA REVIEWS

Review of Christy Ford Chapin, *Ensuring America's Health: The Public Creation of the Corporate Health Care System* (New York: Cambridge University Press, 2015), *Journal of American History* 104, no. 2 (2017): 101.

Review of Matthew Smith, *Another Person's Poison: A History of Food Allergy* (New York: 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* (Vancouver: 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* (Baltimore: The 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* (New Brunswick: 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* (Durham: 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* (Toronto: 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* (London: 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* (17 October 2012).

#### OTHER PUBLICATIONS

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," in *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

### INVITED PRESENTATIONS

- A. R. Ruis, “Trois Empreintes d’un Môme Cachet’: The History of Nutrition as Word, Idea, and Fact,” *Viral Networks: An Advanced Workshop in Digital Humanities and Medical History*, National Library of Medicine, Bethesda, Maryland, January 2018.
- A. R. Ruis, “Nourishing Immunity: Pretubercular Children, Risk, and Well Child Care in the Early 20<sup>th</sup> Century,” *Shifting Temporalities in Biomedicine*, Station Biologique de Roscoff, France, October 2013.
- A. R. Ruis, “Often Filled, Seldom Fed, Never Finished,” *Epicuriosity × PechaKucha*, Monona Terrace, Madison, Wisconsin, April 2013.
- A. R. Ruis, “‘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.
- A. R. Ruis, “‘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.

### CONFERENCE PRESENTATIONS

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

- E. Utzerath, T. M. Pesavento, E. Torres, & A. R. Ruis, "Feedback Fury: Designing Interactive Feedback Loops to Help Students Achieve Learning Goals," *University of Wisconsin Teaching and Learning Symposium*, Madison, May 2015.
- A. R. Ruis, "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.
- A. R. Ruis, "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.
- A. R. Ruis, "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.
- A. R. Ruis, "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.
- A. R. Ruis, "Eating to Learn, Learning to Eat: School Foodservice and Nutrition in Early 20<sup>th</sup>-Century America," *It's Good For You! 100 Years of the Art and Science of Eating*, University of Wisconsin, Madison, October 2009.
- A. R. Ruis, "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

- A. R. Ruis, A. A. Rosser, C. Quandt-Walle, J. N. Nathwani, D. Williamson Shaffer, & C. M. Pugh, "The Hands and Head of a Surgeon: Modeling Operative Competency with Multimodal Epistemic Network Analysis," *Layton F. Rikkers Education Retreat*, University of Wisconsin School of Medicine and Public Health, June 2017.
- A. R. Ruis, A. A. Rosser, J. N. Nathwani, M. V. Beems, S. A. Sullivan, D. Williamson Shaffer, & C. M. Pugh, "Modeling Operative Thinking in a Simulation-Based Continuing Medical Education Course on Laparoscopic Hernia Repair," *Annual ACS Surgical Simulation Meeting*, Chicago, Illinois, March 2017.
- A. D'Angelo, D. Williamson Shaffer, A. R. Ruis, & C. M. Pugh, "Evaluating Operative Performance Using Epistemic Network Analysis," *Layton F. Rikkers Education Retreat*, University of Wisconsin School of Medicine and Public Health, June 2016.
- D. E. Tetrick, G. Arastoopour, A. R. Ruis, D. Williamson Shaffer, & N. C. Chesler, "Virtual Engineering Internships: Increasing the Participation of Women and Minorities through Epistemic Games," *Annual Meeting of the Biomedical Engineering Society*, Seattle, Washington, September 2013.

## CONFERENCES & WORKSHOPS

#### CONFERENCE & WORKSHOP ORGANIZATION

- Workshop 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.

Workshop 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.

Panel Co-Organizer (with F. W. Gibbs), “Teaching and Researching the History of Medicine in the Era of (Big) Data,” *Annual Meeting of the American Association for the History of Medicine*, Minneapolis, Minnesota, May 2016.

#### CONFERENCE & WORKSHOP FACILITATION

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.

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.

#### WORKSHOP & WORKING GROUP PARTICIPATION

*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 Hospital and Clinics and School of Medicine and Public Health, 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.

## TEACHING

#### COURSES TAUGHT AT UNIVERSITY OF WISCONSIN, MADISON

Health and Citizenship in Global Perspective (2014)

Health Care and Society in American History (2012)

#### GUEST LECTURES

“The Origins of School Meal and Nutrition Programs,” School and Community Nutrition in Madison and Beyond (S. Nelson and D. Suri), University of Wisconsin, Madison, March 2017.

“How to Present Your Research (and Not Suck at It),” Research Experience in Educational Psychology (B. R. Eagan), University of Wisconsin, Madison, February 2017.

## MEDIA

### INTERVIEWS

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

“Author Q&A with Andrew Ruis, *Eating to Learn, Learning to Eat: The Origins of School Lunch in the United States*,” Interview with Emily Contois (12 September 2017).

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

## SERVICE

### PROFESSIONAL SERVICE

#### Executive Committees

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

#### Grant Advisory Boards

“The Use of Epistemic Network Analysis to Evaluate Non-Technical Skills Performance in Trauma Simulation Education,” H. S. Jung, PI, National Board of Medical Examiners, Edward J. Stemmler, MD Medical Education Research Fund (2016–2018)

#### Conference Program Committees

Program Committee, *Annual Meeting of the Association for the Study of Food and Society*, Madison, Wisconsin, June 2018.

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

### EDITORIAL SERVICE

#### Editorial Boards

*H-Nutrition* (2016–)

#### Grant Review (*ad hoc*)

Epilepsy Ireland

#### Manuscript Review (*ad hoc*)

Abdo Publishing

Academic Press

*American Journal of Epidemiology*

*International Journal of Communication and Linguistic Studies*

### INSTITUTIONAL SERVICE

#### Executive Committees

Epistemic Games Group, Wisconsin Center for Education Research (2013–)

#### Steering Committees

Food Studies Network, University of Wisconsin, Madison (2017–)



Coordinated Leadership Initiative, University of Wisconsin, Madison (2015)

#### Advisory Committees

Director's Advisory Council, Wisconsin Center for Education Research (2016–2018)

Health Care Advisory Committee, University of Wisconsin, Madison (2014–2017)

#### Search Committees

Research and Technical Writer, Wisconsin Equity and Inclusion Laboratory (WeiLAB), Wisconsin Center for Education Research (2013)

#### CONSULTING

History Consultant, The Wonderful Company, Los Angeles, California (2017)

History Consultant, "Everybody Is Constipated, Nobody Is Constipated," *FiveThirtyEight* (16 May 2016)

Curriculum Consultant, National Research Mentoring Network (2015–2016)

History Consultant, *Epidemiology: The Fight against Ebola and Other Diseases* (Minneapolis: Essential Library, 2015)