

# NICOLE WELK-JOERGER

University of Pennsylvania  
Department of History and Sociology of Science  
303 Claudia Cohen Hall  
249 South 36th Street  
Philadelphia, PA 19104-6304

Email: nicole.e.welk@gmail.com  
Phone: +1 717 940 7796  
Web: welkjoerger.com  
Twitter: @welkjoerger

## EDUCATION

---

- 2020                    **University of Pennsylvania**, Philadelphia, PA  
Doctor of Philosophy in History and Sociology of Science
- **Center for Teaching and Learning (CTL) Certificate in College and University Teaching**, Awarded December 2016
  - **Dissertation: *Feeding Others to Feed Ourselves: Animal Nutrition and the Politics of Health, 1900—2019***
- 2014                    **Brandeis University**, Waltham, MA  
Master of Arts in Anthropology
- 2012                    **Temple University**, Philadelphia, PA  
Bachelor of Arts in Art History and Anthropology, *Summa Cum Laude*

## ACADEMIC PUBLICATIONS

---

### Peer-Reviewed Publications

- 2019                    “Restoring Eden in the Amish Anthropocene.” *Environmental Humanities* 11, no. 1 (2019): 72-100.
- An earlier version of this article was awarded the CASTAC Paper Prize.
- 2018                    “The Armsby Respiration Calorimeter.” *Pennsylvania Magazine of History and Biography* 142, no. 3 (2018): 393-396.
- 2016                    “Amish Community.” in *The Oxford Companion to Cheese*, ed. Catherine Donnelly (Oxford University Press, 2016): 23-24.
- *The Oxford Companion to Cheese* won the 2017 James Beard Award in Reference and Scholarship.

### Publications In Progress

- “Cooperative Calorimetry: How Humans and Animals Helped Industrialize United States Agriculture.” Chapter submitted to editor November 2018. To be submitted to Wilfrid Laurier University Press with edited volume *Sharing Spaces: Technology, Society, and the More-Than-Human* by Finn Arne Jørgensen.
- “The Business with Bugs: Fistulas, Artificial Rumen, and Synthetic Feed in the Mid-20th-Century U.S.” For the *Journal of the History of Biology* Special Issue on “Testing Models, Standards, and Organisms,” edited by Brad Bolman. Under review.

### Book, Film, and Conference Reviews

- 2019 "How Big Is Our Tent?" in "Roundtable: Why Does Agricultural History Matter?" *Agricultural History* 93, no. 4 (2019): 731-732.
- 2019 "Capitalist Pigs: Pigs, Pork and Power in America. By J. L. Anderson," *Environmental History*, Volume 24, Issue 4 (2019): 805-807.
- 2017 "Review of Smith-Howard, Kendra, *Pure and Modern Milk: An Environmental History since 1900.*" *H-Envirohealth, H-Net Reviews*. October 2017.
- 2017 "Feeding Fear: Review of *Consumed* (MarVista Entertainment and Mister Lister Film, 2015)." *Endeavour* 41, Issue 2 (June 2017): 34-35.

### Selected Web-Based Publications

- 2019 "[The problem with tractor protests](#)," *The Washington Post*. Oct 15, 2019.
- 2019 "[When Animals Attack](#)," *Environmental History Now*. Sept. 12, 2019.
- 2019 "[Watts in Water](#)," *Journal of the History of Ideas Blog*. Mar 18, 2019.
- 2018 "[A Cow's Menu on a DuPont Farm](#)," *Hagley News and Programs*. Oct 22, 2018.
- 2018 "[Crip Cows? Disabled Animals in the Archive](#)." *Environmental History Now*. Oct 9, 2018.
- 2017 "[Milk: A History of Tasting What Cows Eat](#)." *Nursing Clio*. Apr 6, 2017.

### ACADEMIC AWARDS

---

- 2020 World Association for the History of Veterinary Medicine (WAHVM) Early Career Scholar Award (First Prize)
- 2017 David Hakken Paper Prize, Committee for the Anthropology of Science, Technology, and Computing (CASTAC)
- 2017 Penn Prize for Excellence in Teaching by Graduate Students Award, University of Pennsylvania
- 2017 Dean's Scholar Award, University of Pennsylvania
- 2014 Outstanding Teaching Fellow Award, Brandeis University
- 2012 Outstanding Achievement Award, Mayor's Internship Program, City of Philadelphia
- 2012 Most Distinguished in Art History Award, Tyler School of Art/Temple University
- 2012 Dorothy A. Seegers Senior Memorial Award, Temple University
- 2012 Diamond Award, Temple University

## GRANTS AND FELLOWSHIPS

---

2020	NEH-Hagley Fellowship on Business, Culture, and Society
2019-2020	Dissertation Completion Fellowship, University of Pennsylvania
2019	Joy Parr Envirotech Travel Award, Envirotech SIG, Society for the History of Technology
2018-2019	Smithsonian Institution Predoctoral Fellow, National Museum of American History
2018-2019	Wolf Humanities Center Graduate Student Fellow, University of Pennsylvania
2018-2019	Lemelson Center Fellow, National Museum of American History, Smithsonian Institution
2017-2018	Penn Program in the Environmental Humanities Fellow, University of Pennsylvania
2017	Anthropocene Campus Philadelphia (ACP) Society for the History of Technology Fellow
2017-2019	Teece Dissertation Research Fellowship, University of Pennsylvania
2017	Hagley Museum and Library Exploratory Research Grant
2016	Scientific Instrument Society (SIS) Research Grant Award
2016	GAPSA-Provost Fellowship in Interdisciplinary Innovation, University of Pennsylvania
2015	Women in Technological History (WITH) Travel Award, Society for the History of Technology
2014-2019	Benjamin Franklin Fellowship, University of Pennsylvania
2012-2013	Merit Scholarship, Brandeis University
2010-2012	Ronald E. McNair Post-Baccalaureate Achievement Program Scholar, Temple University
2010	Creative Arts, Research, and Scholarship (CARAS) Grant, Temple University

## TEACHING EXPERIENCE

---

2020-present	<b>Drexel University</b> , Philadelphia, PA Instructor Courses: Introduction to the History of Public Health (PBHL 302), Spring'20
2018-present	<b>Franklin and Marshall College</b> , Lancaster, PA Instructor Courses: Science and Religion (STS 374), Spring'18, Spring'19 Environment and Human Values (STS 117), Spring'19, Summer'20

- 2017 **University of Pennsylvania, Center for Teaching and Learning (CTL)**, Philadelphia, PA  
Instructor  
Workshop: Leading Discussions in the Humanities and Qualitative Social Sciences
- 2015-2017 **University of Pennsylvania, School of Arts and Sciences**, Philadelphia, PA  
Teaching Assistant  
Courses: Medicine in History (HSOC 002), Dr. David Barnes  
Technology and Society (STSC 003), Dr. Etienne Benson  
Health and Societies: Global Perspectives (HSOC 10), Dr. Ramah McKay  
Environment and Society (STSC 379), Dr. Etienne Benson
- 2016 **University of Pennsylvania, School of Engineering & Applied Science**, Philadelphia, PA  
Grader  
Course: Engineering Ethics (EAS 203), Dr. Brittany Shields
- 2013-2014 **Brandeis University, School of Arts and Sciences**, Waltham, MA  
Teaching Assistant  
Courses: Introduction to the Comparative Study of Human Societies (ANTH 1A),  
Dr. Jonathan Anjaria (2014), Dr. Janet McIntosh (2013)
  - Guest Lecture: “Faith and Language in the Amish Community” (2014)
Human Origins (ANTH 5A), Dr. Charles Golden
  - Guest Lecture: “Domestication of animals in the archeological record”
- 2012-2014 **Brandeis University, Student Support Services Program**, Waltham, MA  
Instructor  
Course: GRE Verbal Reasoning and Writing Preparation
- 2011-2012 **Temple University, School of Arts and Sciences**, Philadelphia, PA  
Ronald E. McNair Teaching Fellow (teaching assistant)  
Course: Evolution of Cultures (ANTH 809), Dr. Patricia Hansell
- 2011 **Temple University Rome**, Rome, Italy  
Peer Teacher  
Course: Darkroom Photography (VA 3605), Professor Lucy Clink

#### **INVITED PAPERS, LECTURES, AND CONTRIBUTIONS**

---

Invited workshop participant for “Bovine Regimes,” at the Max Planck Institute for the History of Science, Berlin, Germany, March 2020 [*virtual workshop due to COVID-19*].

“Regulating Rumensin: Defining Antibiotic Feeds in the U.S. in the Wake of Resistance.” Invited paper presentation at the World Association for the History of Veterinary Medicine Conference, Pretoria, South Africa, February 2020.

“Animals, Agriculture, and Public Health.” Invited guest lecture for Drexel University *Public Health* seminar, February 2019.

“An Industry of Industries: Animal Feed in the Mid-Twentieth Century,” National Museum of American History Research Colloquium, Smithsonian Institution, Washington, D.C., December 2018.

Invited workshop participant for “Closing the Gap,” an international workshop at Nordic Center, Fudan University, Shanghai, China, March 2018.

Invited roundtable participant for “Technology in the Anthropocene Roundtable Discussion,” (as ACP SHOT Fellow), Society for the History of Technology Conference, Philadelphia, PA, October 2017.

“Milk: A history of medicine and public health,” invited speaker for the State Library of Pennsylvania, Rare Collections Open House, Harrisburg, PA, August 2017.

“Governing our guts: On food and policing microbes,” invited speaker for Nerd Nite Philly (No. 60), May 2016.

“Animal Entrepreneurs: Understanding the 1993 Approval of rbST in Neoliberal America,” invited participant for *Animals in History* panel for Barnes Graduate Student Conference, Temple University, March 2016.

#### **MEETINGS AND SESSIONS ORGANIZED**

---

Program Committee Member, Agriculture History Society (AHS) 100<sup>th</sup> Anniversary Meeting, Washington, D.C., June 6 – 8, 2019.

Organizer, “Future Directions in Agricultural History” nontraditional session, Agricultural History Society 2019 Conference.

Co-organizer, Wolf Humanities Center Symposium “Stuff: Anxieties and Aspirations of the Material World,” University of Pennsylvania, February 2, 2019.

Co-organizer, *Environments of Modernity* Symposium, University of Pennsylvania, March 22 – 23, 2018.

Co-organizer, Anthropocene Reading Group, Penn Program in Environmental Humanities (PPEH), University of Pennsylvania, 2017 – 2019 (monthly meetings).

Co-organizer, Grad BEN Talks (graduate student TED-style talks), University of Pennsylvania, February 23, 2018.

Co-organizer, “Maintaining Natures” string session, Society for the History of Technology (SHOT) 2017 Conference.

#### **CONFERENCE PRESENTATIONS**

---

“Animals in Agriculture,” Agricultural History Society Lightning Round, Organization of American Historians (OAH) Meeting, Washington, D.C., April 2020 [*virtual presentation due to COVID-19*].

““Noise-Head-Tail-Pail”: Human-Animal Labor in U.S. and Canadian Cattle Photography,” American Society for Environmental History (ASEH), Ottawa, Canada, March 2020 [*cancelled due to COVID-19*].

“Safety by Design: Silo Design in Twentieth-Century United States,” Society for the History of Technology (SHOT), Milan, Italy, October 2019.

“Illustrating Agricultural History: Drawings as Evidence, Comics as Narrative,” Agricultural History Society (AHS), Washington, D.C., June 2019.

“From Farm to Pharm and Farm, Again: Tracing Oxytocin in Human and Agricultural Medicine from 1930,” American Association for the History of Medicine (AAHM), Columbus, Ohio, April 2019.

“Waste and the Wonders of the Bovine Gut: How Plastics, Petroleum, and Pharmaceuticals fed American Food Animals” American Society for Environmental History (ASEH), Columbus, Ohio, April 2019.

““To Spread the Gospel of the Extension Service”: The Role of Feed Businesses in Feeding Food Animals, 1910 – 1930,” Joint Annual Meeting of the Agriculture, Food, and Human Values Society and the Association for the Study of Food and Society (AFHVS/ASFS), Madison, Wisconsin, June 2018

“When the Anthropocene is Marked with Animal Manure and Methane,” American Society for Environmental History (ASEH), Riverside, California, March 2018.

“When Scientific Specialties create Scape-“cows” in the Anthropocene,” American Anthropological Association (AAA), Washington, D.C., November 2017.

“Measuring Maintenance: Cow condition and calorimeters in America's early 20th century,” Society for the History of Technology (SHOT), Philadelphia, Pennsylvania, October 2017.

“Engineering menus, engineering care: The Romantic biopolitics of feeding American food animals, 1890 – 1920,” European Rural History Organization International Conference (EURHO), Leuven, Belgium, September 2017.

““All Milk. All Healthy.’: Pastoral perceptions between farmers and consumers during the 1993 Posilac approval,” Agricultural History Society (AHS), Briarcliff Manor, New York, June 2016.

“Religion, Science, and Diverse Farming Methods Among the Amish in Pennsylvania,” Young Center Amish Conference, Elizabethtown, Pennsylvania, June 2016.

“From Schauberger to Swartzentruber: Alternative water technologies from 1936 – 2013,” Society for the History of Technology (SHOT), Albuquerque, New Mexico, October 2015.

“Facilitating Traditions and Farming Futures: Selling feed and advice to the last dairy farmers in Pennsylvania,” American Anthropological Association (AAA), Chicago, Illinois, November 2013.

“Bullet Holes and Band Aids: Graffiti, murals, and contested “visual truth” in Philadelphia,” Society for the Anthropology of North America (SANA), Durham, North Carolina, March 2013.

## CAMPUS TALKS

---

“The Mantra of Feed Efficiency: Measuring Sustainable Livestock Operations in the Climate Crisis,” invited Brown Bag presentation with the Penn Program in Environmental Humanities, April 2020.

“Introduction to Methods in Art History,” invited lecture for World History course at The Baldwin School, October 2019.

“Lesson Planning and Breaking Down Assignments,” invited speaker for the History and Sociology of Science Annual Teaching Workshop, August 2018.

“History and ‘One Health.’” Invited guest lecture for Penn Vet Seminar in One Health Design, University of Pennsylvania, January 2018.

“Eating “Natural”: Food Labels versus Feeding Realities,” invited speaker for Penn Arts and Sciences 60-Second Slam, University of Pennsylvania, May 2017.

“Can Human Feminists Drink Cows’ Milk?,” invited speaker for Penn Vegan Society and Penn Association for Gender Equality, University of Pennsylvania, November 2016.

Invited roundtable participant, “Animals and Film,” *Animals in the Archive Symposium*, Penn Humanities Forum and Penn Program in Environmental Humanities, University of Pennsylvania, October 2016.

## MEDIA

---

Ahlborn, Susan. “[The Amish and the Anthropocene](#),” *Omnia: All Things Arts and Sciences*, Jan 28, 2020.

Ahlborn, Susan. “[How We Feed Our Food](#),” *Omnia: All Things Penn Arts and Sciences*, April 13, 2017.

Duke University Press. “[University Press Week: How to be an Environmental Steward](#),” *News from Duke University Press Blog*, November 6, 2019.

Gruber, Philip. “[How to Work with the Amish on Conservation](#),” *Lancaster Farming*, June 20, 2016.

Thacker, Lauren. “[60-Second Slam Lets Students and Faculty Show their Work](#),” *Omnia: All Things Penn Arts and Sciences*, May 22, 2017.

## SERVICE

---

**Reviewer**, *Gastronomica*, 2020 – present; *Environmental Humanities*, 2019 – present; *Graduate Journal of Food Studies*, 2018 – present

**Committee Member**, Agricultural History Society Program Committee, 2018 – 2019; Penn Prize for Excellence in Teaching Award Committee, March 2018

**Vice President of Public Affairs**, School of Arts and Science Graduate Student Government (SASgov), 2017 – 2018

**Grant Reviewer**, School of Arts and Sciences Graduate Student Government (SASgov)  
Discretionary and Travel Funds, 2016 – 2017; GAPSA-Provost Fellowship for Interdisciplinary  
Innovation, 2017.

**Social Media Coordinator**, (co-coordinator) American Society for Environmental History (ASEH)  
Graduate Student Caucus, 2017 – 2018; SASgov, 2017 – 2018; Twitter volunteer for *Disability  
Studies: A History* Conference, March 2017.

#### **OTHER RELEVANT EMPLOYMENT**

---

2011-2016     **Philadelphia Museum of Art**, Philadelphia, PA  
Public Programs Adjunct

2014-2015     **Netter Center for Community Partnerships**, Philadelphia, PA  
University Assisted Schools Evaluation Team Researcher

2012-2014     **Rose Art Museum**, Waltham, MA  
Visitor Services Coordinator, Gallery Guide Coordinator

2012-2014     **Student Support Services Program**, Brandeis University, Waltham, MA  
Graduate Assistant, Writing Tutor

2012            **City of Philadelphia Office of Arts, Culture and Creative Economy**, Philadelphia, PA  
Mayor's Intern, Public Art Department Assistant

2009-2012     **The Temple News**, Temple University, Philadelphia, PA  
Arts and Entertainment contributor, *Starving Artist* columnist

#### **MEMBERSHIPS**

---

Agricultural History Society (AHS)

American Anthropological Association (AAA)

American Association for the History of Medicine (AAHM)

American Dairy Science Association (ADSA)

American Society of Animal Science (ASAS)

American Society for Environmental History (ASEH)

Food Safety Modernization Act (FSMA) Preventive Controls Qualified Individual (PCQI) Certificate

Organization of American Historians (OAH)

Society for the Anthropology of North America (SANA)

Society for the History of Technology (SHOT)

## **LANGUAGES**

---

**English:** Native speaker

**Spanish:** Advanced

**German:** Reading