

NICOLE WELK-JOERGER

High Meadows Environmental Institute
Princeton University
Guyot Hall, Room 129
Princeton, New Jersey 08544

Emails: nicole.e.welk@gmail.com
newelkjo@princeton.edu
Phone: +1 717 940 7796
Web: welkjoerger.com

ACADEMIC APPOINTMENTS

- 2021-present **Princeton University**, Princeton, NJ
High Meadows Environmental Institute Postdoctoral Research Associate
- 2020-2021 **North Carolina State University**, Raleigh, NC
Postdoctoral Teaching Fellow

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 Articles

- Forthcoming "The Business with Bugs: Ruminology and the Commercial Feed Industry in the United States." *Journal of the History of Biology*, Vol. 54, issue 4.
- 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.

Reviews

- 2021 "Review of Gibson, Jane W.; Alexander, Sara E., eds., *In Defense of Farmers: The Future of Agriculture in the Shadow of Corporate Power.*" *H-Environment, H-Net Reviews*. August 2021.
- 2021 "Pyrrhic Progress: The History of Antibiotics in Anglo-American Food Production, by Claas Kirchhelle," *The English Historical Review*. July 2021.

- 2020 "Review: Livestock: Food, Fiber, and Friends," *Graduate Journal of Food Studies*, Issue 5 (June 2020).
- 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.

Select Public Scholarship

- 2020 "[Personal Pan Histories: Wacky Cake](#)," *Contingent Magazine*. Dec. 18, 2020.
- 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.

Publications In Progress

- In Progress *Rumen Nation: A Story of Sustainability in the United States*. Book proposal to be submitted October 2021.
- Under revision "Cooperative Calorimetry: How Humans and Animals Helped Industrialize United States Agriculture." Under consideration with University of Pittsburg Press for edited volume, *Sharing Spaces: Technology, Mediation, and Human-Animal Relationships* by Finn Arne Jørgensen (to resubmit September 2021).
- Under review "Making Human Trash Tasty: A History of the Sweet Cattle Feed Industry." Under consideration with University of Pennsylvania Press for edited volume, *Capitalism and the Senses* by Reggie Blaszczyk and David Suisman (submitted September 2021).
- Under review "The Place of Dairy Farming in Amish Agrarianism," *Journal of Amish and Plain Anabaptist Studies* (submitted July 2021).

ACADEMIC AWARDS

- 2021 James C. Giesen Teaching Excellence Award, Agricultural History Society
- 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)

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| 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

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| 2020-2021 | 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

- 2021-present **Princeton University**, Princeton, NJ
Postdoctoral Research Associate
Courses: Environmental Studies Senior Colloquium (ENV Colloquium), Fall'21, Spring'22
- 2020-2021 **North Carolina State University**, Raleigh, NC
Postdoctoral Teaching Fellow
Courses: U.S. Agricultural History (HI 360), Fall'20
Global Agricultural History (HI 340), Spring'21
Early American History (HI 253), Spring'21
COVID Case Files (Honors Course), Spring'21
- 2020 **Drexel University**, Philadelphia, PA
Instructor
Courses: Introduction to the History of Public Health (PBHL 302), Spring'20, Summer'20
- 2018-2020 **Franklin and Marshall College**, Lancaster, PA
Instructor
Courses: Science and Religion (STS 374), Spring'18, Spring'19, Summer'20
Environment and Human Values (STS 117), Spring'19, Summer'20
- 2017 **UPenn 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 **UPenn 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

- 2021 Energy and Environment Kane Allen Memorial Lecture, Arkansas School for Mathematics, Sciences, and the Arts, March 2021.
- 2021 “Animal Celebrity and Agricultural Science: Peering into “Jessie the Window Cow,”” [Animal History Group Speaker Series](#), January 2021.
- 2020 Podcast guest, “[Teaching in COVID19: Disaster Pedagogy in Real Time](#),” #COVIDCalls with Scott Knowles, September 2020.
- 2020 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*].
- 2020 “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.
- 2019 “Animals, Agriculture, and Public Health.” Invited guest lecture for Drexel University *Public Health* seminar, February 2019.
- 2018 “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.
- 2018 Invited workshop participant for “Closing the Gap,” an international workshop at Nordic Center, Fudan University, Shanghai, China, March 2018.
- 2017 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.
- 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.
- 2016 “Governing our guts: On food and policing microbes,” invited speaker for Nerd Nite Philly (No. 60), May 2016.
- 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

- 2019 Program Committee Member, Agriculture History Society (AHS) 100th Anniversary Meeting, Washington, D.C., June 6 – 8, 2019.
- 2019 Organizer, “Future Directions in Agricultural History” nontraditional session, Agricultural History Society 2019 Conference.
- 2019 Co-organizer, Wolf Humanities Center Symposium “Stuff: Anxieties and Aspirations of the Material World,” University of Pennsylvania, February 2, 2019.
- 2018 Co-organizer, [Environments of Modernity](#) Symposium, University of Pennsylvania, March 22 – 23, 2018.

- 2017-2019 Co-organizer, Anthropocene Reading Group, Penn Program in Environmental Humanities (PPEH), University of Pennsylvania, 2017 – 2019 (monthly meetings).
- 2018 Co-organizer, Grad BEN Talks (graduate student TED-style talks), University of Pennsylvania, February 23, 2018.
- 2017 Co-organizer, “Maintaining Natures” string session, Society for the History of Technology (SHOT) 2017 Conference.

CONFERENCE PRESENTATIONS

- 2021 “The Brains of the Operation: Gendered Agricultural Labor Relations with Animal Glands, 1940-1948,” Society for Social Studies of Science Meeting, Virtual Participation, October 2021.
- 2021 “Amish Environments, Agrarian Values, and the Place of Dairying,” Amish and Plain Anabaptist Studies Association Meeting, Virtual Participation, July 2021.
- 2021 “Feeding Bovines or Feeding Bugs? How Ruminology Affected the Postwar Feed Industry,” Agricultural History Society (AHS), Virtual Meeting, June 2021.
- 2021 “Selling Sustainability: How U.S. Companies “Greened” Agricultural Antibiotics since 1960,” American Association for the History of Medicine (AAHM), Virtual Meeting, May 2021.
- 2020 ““Making Trash Tasty: A Sensory History of Livestock Feed Additives,” Capitalism and the Senses Conference, Hagley Museum and Library, November 2020.
- 2020 “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*].
- 2020 ““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*].
- 2019 “Safety by Design: Silo Design in Twentieth-Century United States,” Society for the History of Technology (SHOT), Milan, Italy, October 2019.
- 2019 “Illustrating Agricultural History: Drawings as Evidence, Comics as Narrative,” Agricultural History Society (AHS), Washington, D.C., June 2019.
- 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.
- 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.
- 2018 ““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

- 2018 "When the Anthropocene is Marked with Animal Manure and Methane," American Society for Environmental History (ASEH), Riverside, California, March 2018.
- 2017 "When Scientific Specialties create Scape-“cows” in the Anthropocene," American Anthropological Association (AAA), Washington, D.C., November 2017.
- 2017 "Measuring Maintenance: Cow condition and calorimeters in America's early 20th century," Society for the History of Technology (SHOT), Philadelphia, Pennsylvania, October 2017.
- 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.
- 2016 "“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.
- 2016 "Religion, Science, and Diverse Farming Methods Among the Amish in Pennsylvania," Young Center Amish Conference, Elizabethtown, Pennsylvania, June 2016.
- 2015 "From Schauberger to Swartzentruber: Alternative water technologies from 1936 – 2013," Society for the History of Technology (SHOT), Albuquerque, New Mexico, October 2015.
- 2013 "Facilitating Traditions and Farming Futures: Selling feed and advice to the last dairy farmers in Pennsylvania," American Anthropological Association (AAA), Chicago, Illinois, November 2013.
- 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

- 2021 "Let's Talk about Animals," invited faculty speaker, A/V Geeks at the Hunt Library, North Carolina State University, March 2021.
- 2020 "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.
- 2019 "Introduction to Methods in Art History," invited lecture for World History course at The Baldwin School, October 2019.
- 2018 "Lesson Planning and Breaking Down Assignments," invited speaker for the History and Sociology of Science Annual Teaching Workshop, August 2018.
- 2018 "History and 'One Health.'" Invited guest lecture for Penn Vet Seminar in One Health Design, University of Pennsylvania, January 2018.
- 2017 "Eating “Natural”": Food Labels versus Feeding Realities," invited speaker for Penn Arts and Sciences 60-Second Slam, University of Pennsylvania, May 2017.
- 2016 "Can Human Feminists Drink Cows' Milk?," invited speaker for Penn Vegan Society and Penn Association for Gender Equality, University of Pennsylvania, November 2016.

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

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

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

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

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

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

SERVICE

Editor, *Environmental History Now*, series editor "Tools for Change," 2020 – present

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

Grant and Scholarship Reviewer, North Carolina State University College of Humanities and Social Sciences (CHASS), 2020-2021, School of Arts and Sciences Graduate Student Government (SASgov) Discretionary and Travel Funds, 2016 – 2017; GAPSA-Provost Fellowship for Interdisciplinary Innovation, 2017.

Committee Member, HMEI Postdoctoral Events Planning Committee, 2021 – present, 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

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

REFERENCES

Ross Bassett
Professor, Department of History, NCSU
Withers Hall NA, 8108, Raleigh, NC 27695
ross@ncsu.edu | +1 919 513 2231

Etienne Benson
Associate Professor, Department of History
and Sociology of Science, UPenn
303 Claudia Cohen Hall, 249 South 36th
Street, Philadelphia, PA 19104-6304
ebenson@sas.upenn.edu | +1 215 898 8400

Beth Linker
Associate Professor, Department of History
and Sociology of Science, UPenn
303 Claudia Cohen Hall, 249 South 36th
Street, Philadelphia, PA 19104-6304
linker@upenn.edu | +1 215 898 7454

James Strick
Professor, Program Chair Department of
Earth and Environment
Franklin and Marshall College
P.O. Box 3003, Lancaster, PA 17604-3003
james.strick@fandm.edu | +1 717 358 3856