Catherine K. Brinkley, VMD, PhD, MS

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Education

2007-2015	Veterinary Medical Degree, University of Pennsylvania Studies focus on Public Health from a One Health perspective
2009-2013	Ph.D., City and Regional Planning, University of Pennsylvania
2007	M.S., Lic. Virology, Göteborg University, Sweden Ecological research on emerging zoonotic disease.
2004	B.A. Biology and Russian, Wellesley College *Magna cum Laude, Phi Beta Kappa.*

Publications

Peer-Reviewed Journal Articles

J 25. Brinkley, C.; Glennie, C.; Flores, J.; Chrisinger, B. (2019) Supermarket Interventions in Food Deserts. *Journal of Public Affairs*

J 24. Brinkley, C. (*accepted*) Rugosity and the Urban Interface. *Annals of the American Association of Geographers.* https://10.1080/24694452.2019.1573133

J 23. Brinkley, C. (2019). Hardin's Imagined Tragedy is Pig Shit: A Call for Planning to Re-Center the Commons. *Planning Theory.* https://doi.org/10.1177/1473095218820460

J 22. Brinkley, C and Leach, A. (2019). Housing Values Near Energy Infrastructure: a Review. *Energy Research and Social Science.* 50: 51-65 https://doi.org/10.1016/j.erss.2018.11.014

J 21. Brinkley, C. (2018). The Small World of the Alternative Food Network. *Sustainability*, *10*(8), 1-19. https://doi.org/10.3390/su10082921

J 20. Brinkley, C. (2018). The conundrum of combustible clean energy: Sweden's history of siting district heating smokestacks in residential areas. *Energy Policy*, 120, 526-532 https://doi.org/10.1016/j.enpol.2018.05.059

J 19. Brinkley, C and Hoch, C. (2018). The Ebb and Flow of Planning Specializations. *Journal of Planning Education and Research* https://doi.org/10.1177/0739456X18774119

J 18. Brinkley, C. (2018) High Rugosity Cities: the geographic, economic and regulatory pathology of America's most non-concentric urban areas. *Journal of Land Use Policy.* https://doi.org/10.1016/j.landusepol.2018.01.024

J 17. Brinkley, C., Kingsley, J., Mench, J (2018). Guarding Animal Welfare and Public Health: Tracking the Rise of Backyard Poultry Ordinances. *Journal of Community Health.* 1-8. https://doi.org/10.1007/s10900-017-0462-0

J 16. Brinkley, C. (2017). Visualizing the social and geographical embeddedness of local food systems. *Journal of Rural Studies*, *54*, 314-325. https://doi.org/10.1016/j.jrurstud.2017.06.023

J 15. Brinkley, C. (2017). Fringe Benefits: Adding Rugosity to the Urban Interface in Theory and Practice. *Journal of Planning Literature*, https://doi.org/10.1177/0885412217726772

J 14. Brinkley, C., Raj, S., & Horst, M. (2017). Culturing Food Deserts: Recognizing the Power of Community-Based Solutions. *Built Environment*, *43*(3), 328-342. https://doi.org/10.2148/benv.43.3.328

J 13. Vaarst, M, Escudero, A.G.; M. Chappell, J.; **Brinkley**, **C.;** Nijbroek, R. Arraes, N.A.M.; Andreasen, L. et al. (2017) "Exploring the concept of agroecological food systems in a city-region context." *Agroecology and Sustainable Food Systems*: 1-26. https://doi.org/10.1080/21683565.2017.1365321

J 12. Horst, M; Raj, S.; **Brinkley, C**. (2016) "Getting Outside the Supermarket Box: Alternatives to "Food Deserts"" *Progressive Planning* (207).

J. 11. Brinkley, C., Birch, E., & Keating, A. (2016). Feeding cities: Charting a research and practice agenda toward food security. *Journal of Agriculture, Food Systems, and Community Development*, *3*(4), 81-87. https://doi.org/10.5304/jafscd.2013.034.008

J 10. Brinkley, C. (2014). Decoupled: successful planning policies in countries that have reduced per capita greenhouse gas emissions with continued economic growth. *Environment and Planning C: Government and Policy* 32(6): 1083-1099. https://doi.org/10.1068/c12202

J 9. Vitiello, D and **Brinkley, C** (2014). Hidden History of Food System Planning *Journal of Planning History.* 13(2): 91-112. https://doi.org/10.1177/1538513213507541

J 8. Brinkley, C and Vitiello, D (2014). From Farm to Nuisance: Animal Agriculture and the Rise of Planning Regulation, *Journal of Planning History.* 13(2): 113-135. https://doi.org/10.1177/1538513213507542

J 7. Brinkley, C, Chrisinger, B, and Hillier, A. (2013). Tradition of Healthy Food Access in Low-income Neighborhoods: Price and Variety of Produce Vending Compared to Conventional Retail, *Journal of Agriculture Food Systems and Community Development.* 41(11): 155-169. https://doi.org/10.5304/jafscd.2013.041.011

J 6. Brinkley, C. (2013): Avenues into Food Planning: A Review of Scholarly Food System Research, *International Planning Studies*. 18(2): 243-266. https://doi.org/10.1080/13563475.2013.774150

J 5. Brinkley, C., Birch, E., & Keating, A. (2013). Feeding cities: Charting a research and practice agenda toward food security. *Journal of Agriculture, Planning, Food Systems and Community Development.* 34(8): 81-87. https://doi.org/10.5304/jafscd.2013.034.008

J4. Brinkley, C. (2012). Evaluating the Benefits of Peri-Urban Agriculture. *Journal of Planning Literature*. 27(3). 259-269. https://doi.org/10.1177/0885412211435172

J3. Brisson, D., **Brinkley, C**., Humphrey, P. T., Kemps, B. D., & Ostfeld, R. S. (2011). It takes a community to raise the prevalence of a zoonotic pathogen. *Interdisciplinary Perspectives on Infectious Diseases*, 2011. 6p. https://doi.org/10.1155/2011/741406

J 2. Brinkley, C., Nolskog, P., Golovljova, I., Lundkvist, Å., & Bergström, T. (2008). Tick-borne encephalitis virus natural foci emerge in western Sweden. *International Journal of Medical Microbiology*, 298: 73-80. https://doi.org/10.1016/j.ijmm.2007.12.005

J 1. Brinkley, C. K., Kolodny, N. H., Kohler, S. J., Sandeman, D. C., & Beltz, B. S. (2005). Magnetic resonance imaging at 9.4 T as a tool for studying neural anatomy in non-vertebrates. *Journal of Neuroscience Methods*, 146(1): 124-132. https://doi.org/10.1016/j.jneumeth.2005.02.003

Book Chapters

BC 2. Brinkley, C and Kingsley, S (2017) "Urban Animal Welfare in Backyard Livestock" in *Advances in Agricultural Animal Welfare.* Ed. Joy Mench. Elsevier.

BC 1. Horst, M; **Brinkley, C**; Martin, K. (2016). "SUB-Urban Agriculture Across the Country" in *Cities of Farmers: Problems, Possibilities and Processes of Producing Food in Cities* Ed. Alfonso Morales

Journal Articles in Review

Francis, K and **Brinkley, C.** Street Food Vending Regulations in California.

Limited Distribution (LD)

LD 6. (2019) Perry, G.; **Brinkley, C.;** Tamimi, D.; Evans, A. Make Davis a Good Food City. *The Davis Enterprise* Feb 24, 2019

LD 5. Brinkley, C. (2019). Sell PG&E for parts and build community energy instead. *CalMatters.* Jan 16. https://calmatters.org/articles/commentary/my-turn-sell-pge-for-parts-and-build-community-energy-instead/

LD 4. Brinkley, C and Kingsley, J. (2018). A chicken in every backyard: Urban poultry needs more regulation to protect human and animal health. *The Conversation.* March 3. https://theconversation.com/a-chicken-in-every-backyard-urban-poultry-needs-more-regulation-to-protect-human-and-animal-health-93113

LD 3. Brinkley, C. Tamimi, D; Frerichs, L, Evans, A. (2017). Food trucks and street vending: the missing piece in Davis' food scene. *Davis Enterprise.* March 3. https://www.davisenterprise.com/forum/opinion-columns/food-trucks-and-street-vending-the-missing-piece-in-davis-food-scene/

LD 2. Brinkley, C. (2016) An incendiary idea for clean energy and rural job growth. *Sacramento Bee.* October 19, 2016. https://www.sacbee.com/opinion/op-ed/soapbox/article108034677.html

LD 1. Brinkley, C and Leach, A. (2016). "District Heating for California: a Path to Green Energy and Sustainable Forest Management," UC Center Sacramento Policy Brief, 1(5): October 6th

Reports (R)

R3. Food and Economic Development (FED) for the City of Davis (2019). Mayor Brett Lee's Mayoral Initiative. Feb, 2019.

R2. Socioeconomic Indicators for the Delta (*in progress*). Delta Protection Commission, Sacramento, California.

R1. World Livestock 2012: Livestock in Food Security. (2011). Rome: Food and Agriculture Organization of the United Nations. http://www.fao.org/docrep/014/i2373e/i2373e00.htm

Book Review (BR)

BR 1. Brinkley, C. (January 01, 2011). Book Review: Sustainability Unpacked: Food, Energy and Water for Resilient Environments and Societies. *Journal of Planning Education and Research, 31,* 4, 473-475.

Grants

2018-2023	National Science Foundation CAREER, "Rugosity on the Peri-Urban Interface" ($630,000, PI)
2018-2020	The Pew Charitable Trusts, "Health Impact Assessment (HIA) to improve health equity in Kern County, California ($19,547, co-PI Dr. Natalia Deeb-Sossa).
2019	National Health Institute Environmental Health Sciences Core Center, "Planning in California Cities and Counties" ($30,000)
2019	World Food Center Conference Grant, Setting the Agenda for Food Cooperatives. ($5,000, co-PI Dr. Keith Taylor)

2018-2019 Environmental Health Sciences for Community Engagement in Language Access. ($5,000, co-PI Dr. Natalaia Deeb-Sossa).

2016 Center for Educational Effectiveness. Faculty Learning Teaching Center Fellow ($750, PI)

2016 Global Affairs Seed Grant, "Farm-to-City Clean Energy" ($15,000, PI)

2016-2018 Delta Protection Commission, "Economic Indicators for the Delta" ($50,000, co-PI with Dr. M. Anne Visser)

2016 Learning Teaching Center, Faculty Learning Community ($1000, PI)

2016 Climate Change Teaching Module ($750, PI)

2009 Inspiration Award for One Health work bridging spatial design and public health, largest monetary award in the veterinary profession ($100,000, PI)

Awards and Fellowships

2019 Santa Fe Institute Complex Systems Science Summer Fellow, June-July.

2018 National Science Foundation Center for Research Excellence and Diversity in Team Science (CREDITS) training, September. UCLA Arrowhead.

2017 Best Paper in *Journal of Built Environment* for Brinkley et al., 2017 "Culturing Food Deserts."

2017 National Center for Faculty Development and Diversity Fellow

2015 Journal of Planning History best article published honorable mention for "The Hidden History of Food System Planning."

2014 American Veterinary Medical Association (AVMA), Policy Advocacy Internship on Capitol Hill (February)

2013 The American Collegiate Schools of Planning (ACSP) award for the doctoral workshop and international Planning conference in Dublin, Ireland.

2006 Fulbright Fellowship to Sweden for the study of animal-to-human disease in disturbed natural environments

2004 Watson Fellowship for the study of zoo design and conservation in South Africa, Sweden, Madagascar, Ukraine, Denmark, Singapore and China

Conference Presentations (peer-reviewed)

Pedagogical Approaches to Nudge Students to Translate and Transmit Knowledge from Sustainability Education. Civic Engagement in Landscape Architecture (CELA). Sacramento, CA. March, 2019

Potential of Heat Planning for California, California Bioresources Alliance Symposium. Sacramento, CA; November, 2018

Community Economic Development in University-Partnerships, Association of Collegiate Schools of Planning (ACSP). Buffalo, NY, October, 2018

City-Region Commons. Invited panel lecture by joint European and American Planning School presidents. Association of Collegiate Schools of Planning (ACSP). Buffalo, NY, October, 2018

Local food and Land-use, Association of European Schools of Planning. Gothenburg, Sweden, July, 2018

The Tragedy of the Commons Never Happened. Association of European Schools of Planning. Gothenburg, Sweden, July, 2018

The Small World of Local Food. Association of Collegiate Schools of Planning (ACSP). Denver, Colorado, October 2017

Geo-social network Analysis of Local Food. Association for the Study of Food and Society/ Agriculture, Food and Human Values. (ASFS/AFHV), Los Angeles, June 2017

Rural Economic Development Indicators for the Delta. American Association of Geographers (AAG) Boston, April 2017

Evolution of Planning Disciplines. Association of Collegiate Schools of Planning (ACSP). Portland, OR, October 2016.

Decoupling economics from GHG emission reductions. Association of Collegiate Schools of Planning (ACSP). Houston, TX, October 2015.

The Star-Shaped City; Sustainable Urban Development. Association of Collegiate Schools of Planning (ACSP), Philadelphia, PA, October 2014

City Shape and Patterns of Food Sales, Association of European Schools of Planning (AESOP-ACSP), Dublin, Ireland, July 2013

Animal Agriculture and the Birth of City Planning Regulation, Society for American Regional Planning History (SACRPH), Baltimore, MD, November 2013

Planning for Animal Agriculture in Cities, Society for Ethics In Food, Lund, Sweden, August 2012

The History of Food Planning in North America, Association for the Study of Food and Society/ Agriculture, Food and Human Values. (ASFS/AFHV), New York, NY, July 2012

Mobile Produce Vending to Improve Health in Low-income Neighborhoods, Urban Affairs Association Conference, San Francisco, CA, November 2012

Benefits of Peri-urban Agriculture, World Planning Congress, Perth, Australia, August 2011

Maximizing Peri-urban Potential through Planning, Association of Collegiate Schools of Planning (ACSP), Salt Lake City, December 2011

Best Practices for Urban Sustainability, panel, Association of Collegiate Schools of Planning (ACSP), Minneapolis, MN, October, 2010

Sustainability Indicators of City Health, World Urban Forum (WUF), Rio de Janiero, Brazil, January 2010

Invited Lectures and Panel Presentations

One Health and Planning, University of Pennsylvania, March, 2019

Land-use and Animal Health in China and the US, Veterinary School, University of California, Davis, February 2019

Food and Economic Development in Davis, City of Davis, February, 2019

One Heath and Backyard Poultry, Veterinary School, University of California, Davis, October, 2018

Local Economies Panel, University of California, Davis, October, 2018

Geography and Community Development Faculty-Student Research Showcase, University of California, Davis, September, 2018

The Small World of Local Food Systems, University of Reno Nevada, April, 2018

Sweden's Energy Transformation, University of California, Davis, April, 2018

Socioeconomic Indicators for the Delta, Delta Protection Commission, January, 2018

Rural Economic Development Indicators, Delta Protection Commission, November 2017

Cities as Coral Reefs, University of California, Davis, Geography Graduate Group, November, 2016

Food Deserts, University of California, Davis, CRD 98, September 2016

Food Deserts, University of California, Davis CRD Bill Lacy, September 2016

District Heating in California. California Energy Commission and UC Center Sacramento (UCCS). October, 2016

Sweden's Energy Transformation and Environmental Justice, Royal Architecture School in Stockholm, July 2016

Civilizations Built by Beasts, Rutgers University, November 2015

Animals and Food Supply in the Early American City, Rutgers University, October 2014

The Birth of Planning and the Regulation of Animals, City and Metropolitan Food Systems course, City & Regional Planning, University of Pennsylvania, January 2014

Fringe Benefits: Urban Morphology's Influence on Food Sale Patterns, Urban Research Institute, University of Pennsylvania, December 2013

A New Market: Curbside Produce Vending in West Philadelphia, Philadelphia Wholesale Produce Market, December 2013

A Model for Getting Fresh Produce to Low-Income Neighborhoods, Philadelphia Public Health Board, Philadelphia, PA, December 2013

Sustainable Produce Vending in West Philadelphia, Geography and Public Health course, City & Regional Planning, University of Pennsylvania, January 2013

Farmland Amenities and Conservation Easements, Environmental Planning Course, City & Regional Planning, University of Pennsylvania, December 2012

Regulating Animals out of Philadelphia from 1600-present day, Philadelphia Society for the Promotion of Agriculture, Philadelphia, PA, November 2012

Introduction to Global Health, University of Pennsylvania, School of Veterinary Medicine, October 2012

Designing for Animals: Zoo Enclosures and Farmland Planning, University of Maryland, 2011 and 2009

Keynote Lecture on Zoo Design across the World, Swedish Aquaria and Zoo Association, 2006

Teaching

Community and Regional Development (CRD)
- CRD 158: "Community Governance," (2016-)
- CRD 152: "Community Development" (2016-)
- CRD 200: "Health and Planning" (2018-)

Geography,
- GEO 200BN: "Geography Theory and Practice" (2016)

Study Abroad,
- Sustainable Cities of Northern Europe (2018-)

2015 Adjunct Assistant Professor, Department of Environmental and Occupational Health Sciences, University of North Texas. Courses Taught: "Global Food Security and Sustainability" online for Masters in Public Health program.

2013 Teaching Assistant, Environmental Planning, Department of City and Regional Planning, University of Pennsylvania

2012 Teaching Assistant Urban and Metropolitan Food Systems, Department of City and Regional Planning, University of Pennsylvania

2011 Teaching Assistant, Planning Theory, Department of City and Regional Planning, University of Pennsylvania

2009 Teaching Assistant, Veterinary Histology, University of Pennsylvania, School of Veterinary Medicine

Professional Leadership: separate into profession, university, department, community

2018- Executive committee member of the Community Development Graduate Group

2018- Steering Committee for joint colloquium between Human Ecology and Animal Science departments, UC Davis.

2017- Downtown Davis Planning Advisory Committee, co-leader of Sustainability Task Force focused on siting energy infrastructure

2017- Steering committee member for the World Food Center

2017- Faculty on the University of California Global Health Institute's Planetary Health Center of Expertise

2016-17 Faculty mentor for Mellon Public Scholar Program

2016-17 Faculty mentor for Graduate Students of Color

2016- Dean's Representative from College of Agriculture and Environmental Sciences at the California Roundtable on Agriculture and Environment

2016- Center for Regional Change Principle Investigator

2016-17 John Muir Institute for the Environment. Executive Committee Member.

2014 Member of the host organizing committee for that Association for the Collegiate Schools of Planning (ACSP) in Philadelphia, PA.

2014 Initiator and Organizer of the Philadelphia Animal Welfare Working Group, which convenes animal shelter executive directors and expert veterinarians to explore legislative initiatives and foster synergies with research.

2014 Conference Organizer for Waste: The Last Food Mile to be held October, 2014
Participated in writing the winning USDA grant, conference panel design, invitations for speakers, and outreach for regional community engagement.

2013 Conference Organizer for Feeding Cities
Working with six schools at the University of Pennsylvania, the Feeding Cities conference (www.feedingcities.com) on Food Security, drew from 150 invited expert panelists and 400 attendees. Conference follow-up included writing a white paper and practice agenda (Brinkley, Keating and Birch, 2013) and assessed the need for a Masters-level Food Security Program at the University of Pennsylvania through faculty surveys and international comparison of similar offerings at other institutions. I also participated in writing and editing an NIH grant to create a Food Security Research Hub.

2011 Subject Expert for Food Agriculture Organization (FAO) of the United Nations
I reviewed historic and current city ordinances to advise on animal agriculture regulations and food waste processing in low-income countries.

2010 Advisor to the United Nations through the Institute for Urban Research on creating the Sustainable Cities platform. Participated in workshops in Nairobi, Kenya and Rio de Janiero, Brazil, planning conference calls, and authored a guiding white paper: http://sustainabledevelopment.un.org/index.php?menu=1510

2009 Dairy Consult in China, as part of a University of Pennsylvania consulting and education team, we visited and advised on the location, design, maintenance, and economics of veterinary teaching hospitals, slaughter-houses and dairy operations throughout China with the aim of improving milk output.

2007 Founder of One Health, a joint student club to foster dialog across all medical professional schools at the University of Pennsylvania, the first in the country. Organized a panel on Antibiotic Use in Food Animals (September 2008).

Editorial and Grant Peer Review

2013-2015 Editor, Today's Veterinary Practice
Edited and managed peer-review process. Conducted interviews for the back-page. Example: interview with Dr. Melinda Merck on formulating an animal abuse protocol: www.**todaysveterinarypractice**.com/mags/1307/T1307C09.pdf

Peer-Review: Journal of Planning History; Land Use Policy; Journal of Planning, Education and Research; Environmental Practice; Health & Place; Urban Studies; Journal of Rural Studies; Journal of the American Planning Association; International Planning Studies

Grant Panel Reviewer: National Institute of Food and Agriculture, USDA

Mentorship

Doctoral Theses

2018, Ty Beal, PhD Geography, "The Geography of Malnutrition" (committee)

Ongoing, Kate Munden-Dixon, PhD Geography, "Rangeland Management" (committee)

Ongoing, Charlotte Glennie, PhD Sociology, "Urban Gardens" (committee)

Ongoing, Natalia Pinzon, PhD Geography, "Climate mitigation and under-represented farmers" (chair)

Ongoing, Alana Stein, PhD Sociology "Food Banks and the Homeless Population" (committee)

Ongoing, Sam Roodbar, PhD Geography, TBD (chair)

Ongoing, Gwyneth Manser, PhD Geography, TBD (chair)

Ongoing, Tyler, PhD Geography, Spatiality of Cooperatives (committee)

Masters Theses

2019, Samir Noovy, Masters in Community Development, "Social Services for Afghani Immigrants in Sacramento" (committee)

2018, Cameron Denney, Masters in Geography, "Hotspot Analysis of Wildlife Traffic Accidents" (committee)

2018, Frannie Einterz, Masters Community Development, "Culinary Education Programming in Food Banks" (committee)

2018, Jacqueline Scarlett Kingsley, Masters Community Development, "Cities and the Human-Animal Bond" (chair)

Ongoing, Sasha Pesci, Masters Geography, "Tracing the Social Networks of California's Organic Agriculture Movement" (chair)

Ongoing, Andrew Leach, Masters Geography, "Heat Planning Feasibility Map for California" (chair)

Ongoing, Grace Perry, TBD (chair)

Undergraduate Theses

2018, Caroline Kravitz, Community Regional Development, "Public Health interventions for Managing Chronic Diabetes"

2018, Kaniyaa Francis, Global Disease Biology, "Public Health Regulations for Street Food Vending"

Professional Memberships

American Association of Geographers
American Veterinary Medical Association
American Planning Association
Agriculture and Human Values
Philadelphia Society for Promoting Agriculture

Recent Media Appearances

Brinkley's research has been covered with policy briefs, op-eds and interviews in venues such as *CityLab, National Public Radio,* and *the Sacramento Bee.*

National Public Radio January, 2019 https://www.capradio.org/articles/2019/01/29/california-lawmakers-vow-to-keep-electricity-affordable-as-pge-declares-bankruptcy/

The American Planning Association magazine *Planning* Jan 2019 issue. 'Research You Can Use: Reid Ewing considers rugosity.' https://www.planning.org/planning/2019/jan/

National Public Radio March, 2018
https://www.npr.org/sections/thesalt/2018/03/12/592342970/do-backyard-chickens-need-more-rules

CityLab, March 2018 https://www.citylab.com/environment/2018/03/have-backyard-chickens-gone-too-free-range/556232/

Sacramento Bee, Oct 19, 2016 opinion editorial. https://www.sacbee.com/opinion/op-ed/soapbox/article108034677.html

References available upon request.