

Kathryn J. Fiorella, PhD, MPH

EDUCATION

- Ph.D., University of California, Berkeley** 2015
Department of Environmental Science, Policy & Management
Thesis: Integrating Resource Access, Livelihoods and Human Health Around Lake Victoria, Kenya
- Masters of Public Health, University of California, Berkeley** 2013
Epidemiology, Certificate in Public Health Nutrition
- A.B., Princeton University, cum laude** 2006
Department of Ecology & Evolutionary Biology, Certificate in Environmental Studies
Thesis: Reserve Site Selection in Madagascar

ACADEMIC AND PROFESSIONAL APPOINTMENTS

Academic Appointments

- Assistant Professor, Cornell University**, Masters in Public Health, Department of Population Medicine and Diagnostic Sciences August 2018 – Present
- Masters in Public Health Food Systems Concentration, co-lead instructor
 - Faculty Fellow, Atkinson Center for a Sustainable Future
- Lecturer, Cornell University**, Masters in Public Health, Department of Population Medicine and Diagnostic Sciences 2017 – 2018
- Postdoctoral Fellow, Cornell University**, Atkinson Center for a Sustainable Future 2015 – 2017
- Adjunct Postdoctoral Fellow, Columbia University**, Earth Institute 2015 – 2017
- Immersion Fellow, Socio-Environmental Synthesis Center (SESYNC)** 2015 – 2016

Professional Appointments

- UN World Food Programme**, Program Associate, Kampala, Uganda 2008
- The Food Project**, Community Outreach Fellow, Lynn, Massachusetts 2006 – 2008

PUBLICATIONS

Peer-Reviewed Publications

- Fiorella, KJ**, Bageant, ER, Ordonez, KA, Kim, M, Kura, Y, Thilsted, S, Barrett, CB. 2018. Implications of climate change for freshwater fisheries in Cambodia's rice field fisheries: a longitudinal cohort study. *Lancet Planetary Health: Best Abstracts in Planetary Health*. 2: S23.
- DeLorme, A, Gavenus, E, Salmen, C, Benard, GO, Mattah, B, Bukusi, E, **Fiorella, KJ**. 2018. Nourishing Networks: A social-ecological analysis of a network intervention for improving household nutrition in Western Kenya. *Social Science and Medicine*. 197 (95-103).
- Milner, EM, **Fiorella, KJ**, Mattah, B, Bukusi, EB, Fernald, LCH. 2018. Timing, intensity, and duration of food insecurity are associated with child development in Kenya. *Maternal & Child Nutrition*. 14:e12543.
- Fiorella, KJ**, Milner, EM, DO, Bukusi, E, Fernald, LCH. 2017. Quantity and species of fish consumed shape breast milk essential fatty acid concentrations among women living around Lake Victoria, Kenya. *Public Health Nutrition*. 1-8.
- Chang, A, **Fiorella, KJ**, Hickey, MD, Salmen, CR, Bukusi, EA, Cohen, CR, Auerswald, CL. Marginalization and community perception of HIV care, treatment, and support on Mfangano Island, Kenya. *Progress in Community Health Partnerships: Research Education and Action*. In press.

- Fiorella, KJ**, Milner, EM, Salmen, CS, Hickey, MD, Omollo, DO, Mattah, B, Adhiambo, A, Bukusi, EB, Fernald, LCH, Brashares, JS. 2017. Human Health Alters the Sustainability of Fishing Practices in East Africa. *PNAS*. 114(16): 4171-4176.
Covered by: Voice of America (radio), NSF, Cornell Chronicle, Berkeley News
- Seto, K & **Fiorella, KJ**. 2017. From Sea to Plate: Remembering Fish in a Sustainable Food System. *Frontiers in Marine Science*. 4(74).
- Gaynor, KM, **Fiorella, KJ**, Kurz, DJ, Gregory, GH, Seto, KL, Withey, LS, Brashares, JS. 2016. War and wildlife: linking armed conflict to conservation. *Frontiers in Ecology and the Environment*. 14(10): 533-542. (cover story)
- Fiorella KJ**, Rapacciuolo, G, Trisos, C. 2016. Biodiversity Conservation Priorities: Learning from Public Health. *Nature (Correspondence)*. 538 (317).
- Miller, J, **Fiorella, KJ**, Wekesa, P, Boateng, G, Collins, S, Young, S. 2017. An inquiry into a recent paper on pica in western Kenya. *Nutrition and Food Science (NFS) Journal*.
- Fiorella, KJ**, Chen, R, Milner, EM, Fernald, LCH. 2016. Agricultural Interventions for Improved Nutrition: A Review of Environmental and Livelihood Dimensions. *Global Food Security*. 8: 39-47.
- Hickey, MD, Omollo, DO, Salmen, CR, Mattah, B, Blat, C, Ouma, GB, **Fiorella, KJ**, et al. 2016. Movement between facilities for HIV care among a mobile population in Kenya: transfer, loss to follow-up and re-engagement. *AIDS Care*. May 4:1-8.
- Fiorella, KJ**, Camlin, CS, Salmen, CR, Omondi, R, Hickey, MD, Omollo, DO, Milner, EM, Bukusi, EA, Fernald, LCH, Brashares, JS. 2015. Transactional Fish-for-Sex Relationships Amid Declining Fish Access in Kenya. *World Development*. 74: 323-332.
- Salmen, CR, Hickey, MD, **Fiorella, KJ**, Omollo, D, et al. 2015. "Wan Kanyakla" (We are together): Community Transformation in Kenya Following a Social Network Intervention for HIV Care and Treatment. *Social Science and Medicine*. 147: 332-340.
- Hickey, MD, Salmen, CR, Omollo, DO, Mattah, B, **Fiorella, KJ**, et al. 2014. Pulling the network together: Quasiexperimental Trial of a Patient-Defined Support Network Intervention for Promoting Engagement in HIV Care and Medication Adherence on Mfangano Island, Kenya. *JAIDS*. 69(4): 127-134.
- Nagata, JM, **Fiorella, KJ**, Salmen, CR, Hickey, MD, Mattah, B, Magerenge, R, et al. 2014. Around the table: Food insecurity, socio-economic status, and instrumental social support among women living in a rural Kenyan island community. *Ecology of Food and Nutrition*. 54(4).
- Fiorella, KJ**, Hickey, MD, Salmen, CR, Nagata, JM, Mattah, B, Magerenge, R, Cohen, CR, Bukusi, EA, Brashares, JS, Fernald, LCH. 2014. Fishing for Food? Analyzing links between fishing livelihoods and food security around Lake Victoria, Kenya. *Food Security*. 6(6): 851-860.
- Withey, L, Seto, K, McCauley, DJ, **Fiorella, KJ**, Marsh, RA, Abrahms, B, Nunez, TA, Golden, CD, Brashares, JS. Fauna in decline--response. 2014. *Science (Letters)*. 346(6211): 819-820.
- Brashares, JS, Abrahms, B, **Fiorella, KJ**, Golden, CD, Marsh, RA, McCauley, DJ, Nunez, T, Seto, K, Withey, L. 2014. Wildlife Decline and Social Conflict. 2014. *Science*. 345(6195): 376-378
Covered by: BBC News, The New Yorker, NPR, The Daily Mail, Scientific American
- Fiorella, KJ**. 2013. Interpersonal relationships in research: balancing reciprocity and emergencies. *Journal of Research Practice*. 10(2): N1.
- Nagata, JM, **Fiorella, KJ**, Young, SL, Otieno, OD, Ijaa, K, Bukusi, EA, Cohen, C.R. 2013. Socio-demographic and health associations with body mass index at the time of enrollment to HIV care in Nyanza Province, Kenya. *AIDS Care*. 25(12): 1491-1498.
- Fiorella, KJ**. 2013. Considering the Complexity in HIV/AIDS and the Environment. *American Journal of Public Health*. 103(9): e1.

- Bellan, SE, **Fiorella, KJ**, Melesse, DY, Getz, WM, Williams, BG, Dushoff, J. 2013. Extra-Couple HIV Transmission in Sub-Saharan Africa: a mathematical modeling study of survey data. *Lancet*. 381(9877): 1561-1569. *Covered by: The Economist, All-Africa, News Medical*
- Cohn AS, Eitzel, MV, **Fiorella, KJ**, et al. (authors contributed equally). 2012. Review of 'Interdisciplinary Environmental Studies: A Primer' by Gunilla Oberg. *Quarterly Review of Biology*. 87(3): 247-248.
- Fiorella, KJ**, Cameron, A, Sechrest, W, Winfree, R, Kremen, C. Methodological considerations in reserve system selection: a case study of Malagasy Lemurs. 2010. *Biological Conservation*. 143: 963-973.
- Fiorella, KJ**, Gurney, C, Leong, M, Stillinger, T. 2010. Nature's Matrix: Linking Agriculture, Conservation and Food Sovereignty. *Journal of Sustainable Agriculture*. 34(8): 923-925.

In Revision and Review

- Fiorella, KJ**, Bageant, E, Kim, M, Vichet, S, Try, V, Baran, E, Kura, Y, Brooks, A, Barrett, C, Thilsted, S. Improving Fish Biomass and Biodiversity within a Dynamic Social-Ecological System: Community Fish Refuges in Cambodia. *Ecology and Society*. *In revision*.
- Chung, EO, Omollo, DO, Mattah, B, Hickey, MD, Salmen, CR, Milner, EM, Brashares, JS, Young, SL, Fernald, LCH, **Fiorella, KJ**. Characteristics of Pica Behaviors Among Women in Western Kenya. *Journal of Health, Population and Nutrition*. *In review*.
- Fiorella, KJ**, Desai, P, Okeyo, N, Young, SL. Transactional Sex for Natural Resources: Environmental change, gendered economies, and disease risk. *Lancet Planetary Health*. *In revision*.

AWARDS AND FUNDING

Fellowships

- 2015-2017 Atkinson Center for a Sustainable Future Postdoctoral Fellowship, Cornell University
- 2014 Philomathia Fellow, University of California, Berkeley
- 2011 Foreign Language and Area Studies Fellowship (FLAS), DhoLuo
- 2011 Meaningful Modeling of Epidemiological Data Fellow
- 2009-2012 NSF Graduate Research Fellowship Program (GRFP)
- 2006-2008 High Meadows Fellowship to work at a non-profit organization, The Food Project

Research and Grant Funding

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| 2018 | Engaged Curriculum Grant, Engaged Cornell (Team Member) | \$150,000 |
| 2017 | Conservation, Food & Health Foundation | \$30,000 |
| 2015 | Nutrition Embedding Evaluation Program, PATH and DFID; lead author, award to Organic Health Response, Mfangano Island, Kenya | \$100,000 |
| 2014, 2015 | Environmental Science, Policy & Management Summer Grant | \$16,000 |
| 2014 | NSF Doctoral Dissertation Research Improvement, Geography & Spatial Science | \$16,000 |
| 2012 | Andrew & Mary Thompson Rocca Scholarship in Advanced African Studies | \$6,000 |
| 2012 | Partnerships for Enhanced Engagement in Research, USAID, NAS, NSF; lead author, award to Organic Health Response, Mfangano Island, Kenya | \$135,000 |
| 2011-2016 | NSF Coupled Human and Natural Systems, contributing author (to J. Brashares) | \$1,500,000 |
| 2011 | One Health Summer Research Program | \$5,000 |
| 2010 | Sigma Xi Grants-in-Aid of Research | \$400 |
| 2010 | Andrew & Mary Thompson Rocca Pre-Dissertation Award in African Studies | \$4,000 |
| 2010 | Sara's Wish Foundation Fellowship | \$1,500 |
| 2006 | Mr. and Mrs. George Shultz Fund Award | \$2,000 |

Engaged Initiatives Funding

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| 2012 | Berkeley Big Ideas, Scaling Up; EK-FM Radio, Organic Health Response | \$8,000 |
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2012	Berkeley Big Ideas, "We Are Suba!" Ekialo Kiona Youth Radio, Organic Health Response	\$2,000
2011	Berkeley Big Ideas, 1 st Place, Aquaponic Farming, Organic Health Response	\$10,000

Academic Awards

2006	Senior Thesis Prize, Princeton University, Department of Ecology and Evolutionary Biology
2006	Princeton University Environmental Studies Award, 2 nd Place
2006	Hank Dobin Community Based Learning Initiative Thesis Prize, Princeton University, 3 rd Place

PRESENTATIONS

Invited Seminars

Cornell University, Department of Population Medicine and Diagnostic Sciences	2017
University of California, Davis, Department of Environmental Science and Policy	2017
McGill University, Department of Geography	2017
Emory University, Department of Environmental Health.	2017
University of California, San Diego, School of Global Policy and Strategy	2017
University of California, San Diego, School of Public Health	2017
University of Maryland, School of Public Health	2017
University of Illinois, Urbana-Champaign, Dept of Natural Resources and Environmental Science	2017
University of Delaware, School of Marine Science and Policy	2017
Cornell University, Department of Natural Resources	2016
University of Waterloo, School of Public Health	2016
Michigan State University, Department of Wildlife and Fisheries.	2016
Cornell University, Program in International Nutrition	2015

Invited Presentations

Quantity and species of fish consumed shape breast milk essential fatty acids. <i>Global Workshop: Nutrition-sensitive fish agri-food systems</i> . Siem Reap, Cambodia.	2017
Linking Human and Environmental Health: The Effects of Fisher Illness on Fishery Sustainability. <i>Atkinson Sustainability Project Pitch Competition</i> . Cornell University	2017
War and Wildlife: Effects of armed conflict on conservation. <i>International Conservation Seminar</i> . Cornell University.	2016
Human & Ecosystem Health: Fish decline and fish-for-sex relationships in lakeside communities. <i>Kenya Medical Research Institute Research Program</i> . KEMRI-CDC Kisumu, Kenya.	2015
Wildlife and Well-being. <i>Atkinson Center for a Sustainable Future Fellows' Forum</i> . Cornell U.	2015
Fishing for food? Fish access and food security around Lake Victoria, Kenya. <i>Environmental Science, Policy & Management Departmental Colloquium</i> . University of California-Berkeley.	2014
Applications of the One Health Approach to Global Health. <i>UC Global Health Day</i> . University of California-Berkeley.	2012
Rethinking Poverty-Environment Links in the Global South. <i>Interdisciplinary Approaches to Agrarian Livelihoods, Env. and Natural Resource Mgmt</i> . University of California-Berkeley.	2011
Socio-ecological Determinants of Health. <i>'Glo-cal' Health Seminar</i> . UCSF Medical School.	2010
Mfangano Frameworks Project. <i>Summer Research Symposium</i> . University of California-Berkeley.	2010

Contributed Presentations

Social-ecological Drivers of Community Fish Refuges in Cambodia. <i>North American Congress for Conservation Biology</i> . U. Toronto, Canada.	2018
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- Improving Fish Biomass and Biodiversity within a Dynamic Social-Ecological System: Community Fish Refuges in Cambodia. *SESYNC*. Annapolis, Maryland. 2018
- Fish Catch and Fisher Adaptations in Cambodia's Rice Field Fisheries: Implications for Climate Change. *Planetary Health Annual Meeting*. University of Edinburgh, United Kingdom. 2018
- Improving Fish Biomass and Biodiversity within a Dynamic Social-Ecological System: Community Fish Refuges in Cambodia. *International Sustainable Agriculture Intensification and Nutrition Conference*, Phnom Penh, Cambodia [presented by Yumiko Kura]. 2018
- Improving Fish Biomass and Biodiversity within a Dynamic Social-Ecological System: Community Fish Refuges in Cambodia. *Tropical Biology and Conservation Symposium*. Cornell University. 2017
- Evaluation of a Social Network Intervention to Improve Nutrition. *International Congress of Nutrition*. Buenos Aires, Argentina. 2017
- Integrating fishery, livestock and cropping systems. *Farm to Plate Conference*. Cornell University. [Session Presenter and Organizer] 2017
- Biodiversity Benefits in Cambodian Rice Field Fisheries. *Maternal & Child Nutrition*. Cornell Univ. 2016
- Human Illness and Environmental Sustainability around Lake Victoria, Kenya. *International Marine Conservation Congress*. St. John's, Newfoundland, Canada. 2016
- Declining Fish Catch and Human Health Around Lake Victoria, Kenya. *Graduate Student Research Symposium*. University of California-Berkeley. 2015
- Health and Natural Resources around Lake Victoria, Kenya. *Bay Area Conservation Biology Symposium*. University of California-Berkeley 2015
- Fisher and Fishery Health: Effects of Human Illness on Environmental Sustainability. *Interdisciplinary PhD Workshop on Sustainable Development*. Columbia University. 2015
- Natural Resources and Food Security: Fish-for-Sex Relationships around Lake Victoria, Kenya. *Experimental Biology*. American Society of Nutrition. Boston, MA. 2015
- Natural Resources & Gender in Global Health: the Lake Victoria Case. *Unite for Sight*. Yale U. 2015
- Health and Natural Resources: Fish-for-Sex Relationships on Lake Victoria's Shores. *Children's Hospital of Philadelphia Global Health Conference*. University of Pennsylvania. 2014
- Trading Sex for Sustenance. *Gordon Research Conference: Oceans & Human Health*. U. of NE 2014
- Household food insecurity associated with cognitive development in a rural Kenyan community on Lake Victoria. *Experimental Biology*. American Society of Nutrition. San Diego, CA. 2014
- Food-Producing Livelihoods, Nutrition, and Morbidity: The Case of Lake Victoria, Kenya. *Interdisciplinary PhD Workshop on Sustainable Development*. Columbia University. 2013
- Food-Producing Livelihoods, Nutrition, and Morbidity: The Case of Lake Victoria, Kenya. *The Future of Food and Nutrition*. Tufts University. 2013
- Healthy Ecosystems, Healthy Communities?: Links between Conservation and Food Security. Symposium organizer and presenter. *Society for Conservation Biology*. Auckland, NZ. 2011
- Determinants of Health: The Case of HIV/AIDS on Mfangano Island, Kenya. *Meaningful Modeling of Epidemiological Data*. African Institute for Mathematical Sciences, Cape Town, South Africa. 2011
- Socio-ecological determinants of health: Nutrition and HIV/AIDS. Emerging Directions in Health-Environment Interactions-presentation, panel. *American Assoc. of Geographers*. Seattle, WA. 2011
- Intervening in AIDS-presentation and panel discussion, *Health and Governance in Africa*. Stanford Univ. 2010
- Reserve Site Selection for Malagasy Lemurs: Extinction Risk and Methodological Questions (Student Award Finalist). *Society of Conservation Biology*. Port Elizabeth, South Africa. 2007

PROFESSIONAL LEADERSHIP AND SERVICE

Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES)

Contributing Author to Global Assessment, Chapter 2: Drivers

Public Health and Conservation Practice

Advisory Board Member, Organic Health Response, Mfangano Island, Kenya 2015 – Present

Co-Director of Research, Organic Health Response, Mfangano Island, Kenya 2012 – Present

Committee Service

Advisory Board, College of Natural Resources, University of California, Berkeley 2012–2015

Admissions Committee Member, Environmental Science Policy & Management Department
University of California, Berkeley 2014

President, Society for Conservation Biology, Berkeley Chapter 2010–2011

Conference Co-Chair, *Bay Area Conservation Biology Symposium*, Attended by 200+ people 2011

Graduate Student Association Secretary, Environmental Science Policy & Management Dept 2010–2011

Reviewer *American Journal of Public Health; Biodiversity and Conservation; Ecosystem Health and Sustainability; Environment, Sustainability and Development; International Journal of Environment and Public Health; Journal of Environmental Management; Journal of Nutrition and Health Sciences; Journal of Research Practice; PlosONE; Public Health Nutrition; Science; Sustainability*

Memberships Society for Conservation Biology, American Society of Nutrition, Sigma Xi

Volunteering

Committee Member, Princeton University Alumni Schools Committee 2009–present

Volunteer Mentor, Bay Area Big Brothers Big Sisters 2009–2012

TEACHING AND MENTORSHIP

Awards 2012-2013 Outstanding Graduate Student Instructor Award, University of California, Berkeley

Teaching

Instructor, Food Systems and Health (VPTMD 6121, Cornell University) 2017 – present

- Originated a new course for Masters in Public Health Students.
- Required course for Food Systems and Health concentration students (9 students in 2017)

Instructor, Human and Ecosystem Health (ESPM 198, University of California, Berkeley) 2014

- Originated a 2-unit seminar course for ten upper level undergraduate students.
- Created syllabus, selected readings and assignments; evaluated student work.
- Led course weekly in discussion, case studies, and engagement with frameworks for understanding and topics in human and ecosystem health.

Instructor, Special Study for Honors Candidates in Public Health (PH H195A/B, University of California, Berkeley) 2013-2014

- Developed an independent study on health and environment for an undergraduate student.

Instructor, 7th Grade Curriculum and Cultural Exchange

- Developed a 5-course series for 160 7th grade students at Sena Primary (Kenya) and Longfellow Middle (USA); Engaged students in a paired lessons and pen pal letters. 2013-2015

Assistant Instructor, Global Nutrition (PH 196, University of California, Berkeley) 2012

Graduate Student Instructor, Food & Nutrition Programs & Policies (PH 206D, University of California, Berkeley) 2012

Conferences and Workshops

Helping Students in Distress Workshop, Cornell University, Ithaca, NY	2017
Faculty Institute for Diversity, 3-day workshop, Cornell University, Ithaca, NY	2017
Invited Panelist, Encouraging Student Participation, Teaching & Learning Center, Berkeley, CA	2013
Syllabus and Course Design Workshop Series, Berkeley, CA	2012

Mentorship

Undergraduate Students (12): UC Berkeley (10), Cornell University (2)

Publications	<i>Global Food Security</i> (R. Chen), <i>Journal of Health, Population and Nutrition</i> , in review (E. Chung), <i>Lancet Planetary Health</i> , in revision (P. Desai)
Presentations	Experimental Biology, 2016 (E. Chung) Berkeley Interdisciplinary Research Conference, 2013 (V. Chew)
Grants, Awards	Institute of International Studies Grant (E. Chung, 2013) Institute of Intl Studies Thesis Award (E. Chung, 2014)

Masters Students (8): Cornell (2), UC Berkeley (3), UCSF (2), Maseno University, Kenya (1), Arizona State University (1), University of Massachusetts, Amherst (1)

Publications	<i>Maternal and Child Nutrition</i> (E. Milner), <i>Progress in Community Health Partnerships: Research Education and Action</i> (A. Chang), <i>Social Science and Medicine</i> (A. Argent)
Masters Theses	A. Chang, E. Gavenus, E. Milner, M. Moore, F. Wilson-Anumudu
Practicum/Field Experiences	Research practicums (A. Belsan, Q. Wang) and international field experiences/practicums (A. Chang, E. Gavenus, E. Milner, M. Moore A. Argent, F. Wilson-Anumudu, S. Wasser, Q. Wang)
Grants	Center for Global Public Health (E. Milner, E. Gavenus, F. Wilson-Anumudu)

SKILLS AND CERTIFICATIONS

Language Basic Spanish and Dholuo

Statistical packages Stata, R

Certifications Wilderness First Responder (WMA 2011, Renewal 2013), SCUBA (PADI Open Water)