

Jessica Lee Green

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EDUCATION

University of California, Berkeley

Ph.D., Nuclear Engineering, May 2001

Dissertation Title: Self-similarity in the distribution and abundance of species

Dissertation Advisors: Dr. William E. Kastenberg and Dr. John Harte

University of California, Berkeley

M.S., Civil and Environmental Engineering, December 1994

University of California, Los Angeles

B.S., Civil and Environmental Engineering, Magna Cum Laude, June 1992

ACADEMIC APPOINTMENTS

- 2016 – present **Professor.** Department of Biology, University of Oregon, Eugene.
- 2010 – 2016 **Associate Professor.** Department of Biology, University of Oregon, Eugene.
- 2008 – present **External Faculty.** Santa Fe Institute, Santa Fe, New Mexico.
- 2007 – 2010 **Assistant Professor.** Department of Biology, University of Oregon, Eugene.
- 2004 – 2007 **Assistant Professor.** School of Natural Sciences, University of California, Merced.

FELLOWSHIPS & AWARDS

- John Simon Guggenheim Memorial Foundation Fellowship, 2013-2014
- Blaise Pascal International Research Chair, Fondation de l'École Normale Supérieure, 2013-2014
- Alec and Kay Keith Science Faculty Fellowship, University of Oregon, 2013-2016
- Brainstorm Innovation Award, Portland Monthly & OMSI, 2012
- Frontline Scholarship, TEDMED, 2012
- The Harnisch Foundation Sponsorship, The Op-Ed Project, 2012
- Robert Wood Johnson Foundation Sponsorship, TEDMED, 2011
- Technology Entertainment and Design (TED) Senior Fellow, 2011-2013
- Richard A. Bray Faculty Fellowship, University of Oregon, Eugene, 2010 – 2013
- Technology Entertainment and Design (TED) Fellow, 2010-2011
- Outstanding Theory Paper Award, Ecological Society of America, 2010
- National Science Foundation Postdoctoral Fellowship in Biological Informatics, 2002 – 2005

SELECTED PROFESSIONAL AND ADVISORY POSITIONS

- **Co-Founder and Chief Technology Officer.** Phylagen (2014-present)
- **Science Advisor.** PhylosBioscience (2014-present)
- **Founding Director.** Biology and the Built Environment (BioBE) Center (2010 – present)
- **Science Advisor.** Center for the Advancement of Science in Space (2014)
- **Expert Reviewer.** Data Driven Discovery Initiative, Gordon and Betty Moore Foundation (2014)
- **Expert Contributor.** What's Next Health Series, Robert Wood Johnson Foundation (2014)
- **Science Steering Committee.** Marine Microbiology Initiative, GMBF (2011)

PUBLICATIONS

Note on Authorship

For papers stemming out of my laboratory, I follow the first-last-author-emphasis. I note papers from my lab (as primary advisor) using a “*” and indicate student and postdoctoral researchers in my lab in italics.

Peer Reviewed Publications

*Mhuireach, G., Johnson, B.R., Altrichter, A.E., Ladau, J., Meadow, J.F., Pollard, K.S., Green, J.L.** Urban greenness influences airborne bacterial community composition. 2016. *Science of the Total Environment* 571: 680-687.

*Hartmann, E.H., Hickey, R., Hsu, Betancourt Román, C.M., Chen, J., Schwager, R., Kline, Brown, G.Z., Halden, R.U., Huttenhower, C., Green, J.L.** 2016. Antimicrobial Chemicals Are Associated with Elevated Antibiotic Resistance Genes in the Indoor Dust Microbiome. *Environmental Science and Technology* 50 (18), pp 9807–9815.

*Klein, A.M., Bohannon, B.J.M., Jaffe, D.A., Levin, D.A., Green, J.L.** 2016. Molecular Evidence for Metabolically Active Bacteria in the Atmosphere. *Frontiers in Microbiology* 7:772
doi: 10.3389/fmicb.2016.00772.

Adams RI, Bhangar S, Dannemiller KC, Eisen JA, Fierer N, Gilbert JA, **Green JL**, Marr LC, Miller SL, Siegel JA, Stephens B, Waring MS, Bibby K. 2016. Ten questions concerning the microbiomes of buildings. *Building and Environment* doi: 10.1016/j.buildenv.2016.09.001.

Blaser, M.J., Cardon, Z.G., Cho, M.K., Dangl, J.L., Donohue, T.J., **Green, J.L.**, Knight, R.K., Maxon, M.E., Northen, T.R., Pollard, K.S., Brodie, E.L. 2016. Toward a Predictive Understanding of Earth’s Microbiomes to Address 21st Century Challenges. *mBio* 7:3e00714-1.

Hsu, T., Joice, R., Vallarino, J., Abu-Ali, G., *Hartmann, E.M.*, Shafquat, A., DuLong, C., Baranowski, C., Gevers, D., **Green, J.L.**, Morgan, X.C., Spengler, J.D., and Huttenhower, C. Urban transit system microbial communities differ by surface type and interaction with humans and environment. In press. *mSystems*. 2016. DOI: 10.1128/mSystems.00018-16.

Alivisatos, A.P., M.J. Blaser, E.L. Brodie, M. Chun, J.L. Dangl, T.J. Donohue, P.C. Dorrestein, J.A. Eisen, J.A. Gilbert, **J.L. Green**, J.K. Jansson, R. Knight, M.E. Maxon, M.J. McFall-Ngai, J.F. Miller, K.S. Pollard, E.G. Ruby, S.A. Taha. A unified initiative to harness Earth’s microbiomes. 2015. A unified initiative to harness Earth’s microbiomes: transition from description to causality and engineering. *Science* 350(6260), 507-508.

*Klein (Womack), A., Artaxo, P.E., Ishida, F.Y., Mueller, R.C., Saleska, S.R., Wiedemann, K.T., Bohannon, B.J.M., Green, J.L.** 2015. Characterization of active and total fungal communities in the atmosphere over the Amazon rainforest. *Biogeosciences* 12, 6337-6349, doi:10.5194/bg-12-6337-2015.

Meadow, J.F., Altrichter, A.E., Bateman, A., Stenson, J., Brown, G.Z., Green, J.L., Bohannon, B.J.M. 2015. Humans differ in their personal microbial cloud. *PeerJ* 3:e1258 <https://dx.doi.org/10.7717/peerj.1258> [featured in Newsweek, The New Yorker, NPR, Wired, CBS, Science Magazine].

Morlon, H., O’Connor, T.K., Bryant, J.A., Charkoudian, L.K., Docherty, K.M., Jones, E., Kembel, S.W., Green, J.L., Bohannon, B.J.M. The biogeography of putative microbial antibiotic production. 2015. *PLoS ONE* 10(6): e0130659. doi:10.1371/journal.pone.0130659.

*Kembel, S.W., O’Connor, T.K., Arnold, H.K., Hubbell, S.P., Wright, S.J., Green, J.L.** 2014. Relationships

- between phyllosphere bacterial communities and plant functional traits in a neotropical forest. *Proceedings of the National Academy of Sciences* 111(38): 13715 – 13720.
- Meadow, J.F., Altrichter, A., **Green, J.L.*** 2014. Mobile phones carry the personal microbiome of their owners. *Peer J* 2: e447 <http://dx.doi.org/10.7717/peerj.447> [featured in BBC, The Scientist, Scientific American].
- Green, J.L.*** 2014. Can bioinformed design promote healthy indoor ecosystems? *Indoor Air* 24(2): 113-115 doi: 10.1111/ina.12090 [top 5 most downloaded article 2014 & 2015].
- Kembel, S.W., Meadow, J.F., O'Connor, T.K., Mhuireach, G., Northcutt, D., Kline, J., Moriyama, M., Brown, G.Z., Bohannan, B.J., **Green, J.L.*** 2014. Architectural design drives the biogeography of indoor bacterial communities. *PLoS ONE* doi: 10.1371/journal.pone.0087093. [featured in Fast Company, Wired, The Atlantic, The Scientist]
- Meadow, J.F., Altrichter, A., Kembel, S.W., O'Connor, T., K., Brown, G.Z. **Green, J.L.**, Bohannan, B.J.M. 2014. Bacterial communities on classroom surfaces vary with human contact. *Microbiome* 2 (7). doi:10.1186/2049-2618-2-7. [featured in Microbiome Editorial “All hail reproducibility in microbiome research” doi:10.1186/2049-2618-2-8].
- Meadow, J.F., Altrichter A.E., Kembel S.W., Kline J, Mhuireach G, Moriyama M, Northcutt D, O'Connor T.K., Womack A.M., Brown GZ, **Green J.L.**, Bohannan B.J.M. 2013. Indoor airborne bacterial communities are influenced by ventilation, occupancy, and outdoor air source. *Indoor Air* doi: 10.1111/ina.12047 [top 5 downloaded article in 2015].
- Ladau, J., Sharpton, T., J., Jospin, G., Kembel, S.W., O'Dwyer, J., Koepffel, **Green, J.L.**, Pollard, K.S. 2013. The Global Biogeography of Marine Bacteria. *International Society of Microbial Ecology (ISME) Journal* doi:10.1038/ismej.2013.37
- Meadow, J., Bateman, A.C., Herkert, K.M., O'Connor, T.K., **Green, J.L.*** Significant changes in the skin microbiome mediated by the sport of roller derby. 2013. *PeerJ* <http://dx.doi.org/10.7717/peerj.53> [featured in Time Magazine, NPR, NBC News, CBS News, LA Times].
- O'Dwyer, J.P., Kembel, S.W., **Green, J.L.*** 2012. Phylogenetic Diversity Theory Sheds Light on the Structure of Microbial Communities. *PLoS Computational Biology* 8(12): e1002832. doi:10.1371/journal.pcbi.1002832
- Kembel, S., Wu, M., Eisen, J., **Green, J.L.*** 2012. Incorporating 16S gene copy number variation improves estimates of microbial diversity and abundance. *PLoS Computational Biology* 8(10): e1002743.doi:10.1371/journal.pcbi.1002743.
- Green, J.L.*** *Lady Lumps's Mouthguard*. 2012. In *Microbes and Evolution: The World That Darwin Never Saw*, edited by Stanley Maloy and Roberto Kolter. ASM Press, Washington D.C.
- Kembel, S.W., Jones, E., Kline, J., Northcutt, D., Stenson, J., Womack, A.M., Bohannan, B.J.M, Brown, G.Z., **Green, J.L.*** 2012. Architectural design influences the diversity and structure of the built environment microbiome. *International Society of Microbial Ecology (ISME) Journal* doi:10.1038/ismej.2011.211 [featured in *Science News Focus* 365: 648-650].
- Kembel, S. Eisen, J., Pollard, K., and **Green, J.L.*** 2011. The Phylogenetic Ecology of Metagenomes: Insights into microbial diversity and community assembly. *PLoS ONE* 6(8): e23214.
- Sharpton, T.J., Riesenfeld, S.J., Kembel, S., Ladau, J., O'Dwyer, J.P., **Green, J.L.**, Eisen, J.A., Pollard, K.S. 2011. PhyLOTU: A High-throughput Procedure Quantifies Microbial Community Diversity and Resolves

- Novel Taxa from Metagenomic Data. *PLoS Computational Biology* 7(1): e1001061.
- Morlon, H., Bryant, J., Marquet, P., Rebelo, T., Schwilk, T., Tauss, C., Bohannan, B., **Green, J.L.*** 2010. Spatial patterns of phylogenetic diversity. *Ecology Letters* 14: 141-149.
- Womack, A., Bohannan, B.J.M., **Green, J.L.*** 2010. Biodiversity and biogeography of the atmosphere. *Philosophical Transactions of the Royal Society B*. 365: 3645–3653.
- Klepac-Ceraj, V., Lemon, K.P., Martin, T.R., Allgaier, M., *Kemmel, S.M.*, Knapp, A.A., Lory, S., Brodie, E.L., Lynch, S.V., Bohannan, B.J.M., **Green, J.L.**, Maurer, B.A., Kolter, R. 2010. Relationship between cystic fibrosis respiratory tract bacterial communities and age, genotype, antibiotics and *Pseudomonas aeruginosa*. *Environmental Microbiology* 12: 1293-1303 [featured in *Nature* doi:10.1038/news.2009.808].
- O'Dwyer, J. and **J.L.Green*** Field theory for biogeography: a spatially explicit model for predicting patterns of biodiversity. 2009. *Ecology Letters* 13: 87-95. [Awarded Ecological Society of America Theory Paper of the Year; featured in *Nature* 465: 139]
- Gotelli, N.J., Anderson, M.J., Arita, H.T., Chao, A., Colwell, R.K., Connolly, S.R., Currie, D.J., Dunn, R.R., Graves, G.R., **Green, J.L.**, Grytnes, J., Jiang, Y., Jetz, W., Lyons, S.K., McCain, K., Magurran, A.E., Rahbek, C., Rangel, T., Soberón, J., Webb, C.O., Willig, M.R. 2009. Patterns and causes of species richness: a general simulation model for macroecology. *Ecology Letters* 12:873-886.
- O'Dwyer, J., Lake, J., Ostling, A., Savage, V., **Green, J.L.*** 2009. An integrative framework for stochastic, size-structured community assembly. *Proceedings of the National Academy of Sciences* 106: 6170-6175.
- Morlon, H., White, E.P, Etienne, R., **Green, J.L.**, Ostling, A., Alonso, D., Enquist, B.J., He, F.H., Hurlbert, A., Magurran, A.E., Maurer, B.A., McGill, B.J., Olf, H., Storch, D., Zillio, T. Taking species abundance distributions beyond individuals. 2009. *Ecology Letters* 12: 488-501.
- Zillio, T., Banavar, J., **Green, J.L.**, Harte, J., Maritan, A. 2008. Incipient criticality in ecological communities. *Proceedings of the National Academy of Sciences* 105: 18714 – 18717.
- Green, J.L.**, Bohannan, B.J.M., Whitaker, R.J.* 2008. Microbial biogeography: from taxonomy to traits. *Science* 320: 1039-1043.
- Bryant, J., Lammana, C., Morlon, H., Kerchoff, D., Enquist, B. **Green, J.L.*** Microbes on mountainsides: contrasting elevational patterns of bacterial and plant diversity. 2008. *Proceedings National Academy in Sciences* 105: 1505-11511.
- Morlon, H., Chuyong, G., Condit, R., Hubbell, S., Kenfack, D., Thomas, D., Valencia, R., **Green, J.L.*** 2008. A general framework for the distance-decay of similarity in ecological communities. *Ecology Letters* 11: 904-917.
- White, E.P., Enquist, B., **Green, J.L.*** 2008. On estimating the exponent of power-law frequency distributions. *Ecology* 89: 905-912.
- Fuhrman, J.A., Steele, J.A., Hewson, I., Schwalbach, M.S., Brown, M., **Green, J.L.**, Brown, J. 2008. A latitudinal gradient of marine bacterioplankton. *Proceedings of the National Academy of Sciences* 105: 7774 - 7778.
- Green, J.L.** and J.B. Plotkin*. A statistical theory for sampling species abundances. 2007. *Ecology Letters* 10: 1037-1045.

- McGill, B., Ettiene, R.S., Gray, J., Alonso, D., Anderson, M.J., Benecha, H.K., Dornelas, M., Enquist, B.J., **Green, J.L.**, He, F., Hurlbert, A., Magurran, A.E., Marquet, P.A., Maurer, B.A., Ostling, A., Sokyán, C.U., Ugland, K., White, E. Species abundance distributions: Moving beyond single prediction theories to integration within an ecological framework. 2007. *Ecology Letters* 10: 995-1015.
- Prosser, J.I., Bohannan, J.M., Curtis, T.P., Ellis, R.J., Firestone, M.K., Freckleton, R.P., **Green, J.L.**, Green, L.E., Killham, K., Lennon, J.L., Osborn, M.A., Solan, M., van der Gast, C.J., Young, J.P. The Role of Ecological Theory in Microbial Ecology. 2007. *Nature Reviews Microbiology* 5: 384-292.
- Horner-Devine, C., Silver, J., Leibold, M.A., Bohannan, B., Colwell, R.K., Fuhrman, J.A., **Green, J.L.**, Kuske, C.R., Hughes Martiny, J.B., Øvreås, L., Reysenbach, A-L, Smith, V., Muyzer, G. 2007. A comparison of taxon co-occurrence patterns for macro- and microorganisms. *Ecology* 86: 1345-1353.
- Green, J.L.** and B. Bohannan. 2006a. Spatial scaling of microbial biodiversity. *Trends in Ecology and Evolution* 21: 501-507.
- Green, J.L.**, B. Bohannan. 2006b. Biodiversity scaling relationships: are microorganisms fundamentally different? In *Scaling Biodiversity*. Editors D. Storch, P. Marquet, J. Brown. Cambridge University Press.
- Horner-Devine, M.C., **Green, J.L.**, Bohannan, J.M. 2006. Patterns in biodiversity: are prokaryotes different? In *Prokaryotic Diversity: Mechanisms and Significance*. Editor H.M. Lappin-Scott. Society for General Microbiology, Reading, UK.
- Hughes-Martiny, J.B., Bohannan, B.J.M., Brown, J.H., Colwell, R.K., Fuhrman, J., **Green, J.L.**, Horner-Devine, M.C., Kange, J.A., Krumins, J.A., Kuske, C., Morin, P., Naeem, S., Øverås, L., Reysenbach, A-L, Smith, V., Staley, J. 2006. Microbial biogeography: putting microbes on the map. *Nature Reviews Microbiology* 4:102-112.
- Green, J.L.**, Hastings, A., Arzberger, P., Ayala, F., Cottingham, K., Cuddington, K., Davis, F., Dunne, J., Fortin, M.J., Gerber, L., Neubert, M. Complexity in ecology and conservation: mathematical, statistical, and computational challenges. 2005. *Bioscience* 55: 501-510.
- Harte, J., Conlisk, E., Ostling, A., **Green, J.L.**, Smith, A.B. 2005. A theory of spatial-abundance and species-abundance distributions in ecological communities at multiple spatial scales. *Ecological Monographs* 75: 179-197.
- Green, J.L.**, Holmes, A.J., Westoby, M., Oliver, I., Briscoe, D., Dangerfield, M., Gillings, M., Beattie, A. Spatial scaling of microbial eukaryote diversity. 2004. *Nature* 430: 135 – 138. [“Research Highlight” *Nature* 430, *Nature Microbiology Reviews*]
- Harte, J., Ostling, A., **Green, J.L.**, Kinzig, A. 2004. Climate change and extinction risk. *Nature* 430: 135 – 138.
- Ostling, A., Harte, J., **Green, J.L.**, Kinzig, A. 2004. Self-similarity, the power-law form of the species-area relationship, and a probability rule: a reply to Maddux. *American Naturalist* 163: 627 – 633.
- Green, J.L.**, Ostling, A. 2003. Endemics-area relationships: the influence of species dominance and spatial aggregation. *Ecology* 84: 3090 – 3097.

- Ostling, A., Harte, J., **Green, J.L.**, Kinzig, A.P. 2003. A community level fractal property produces power-law species-area relationships. *Oikos* 103: 218 - 224.
- Green, J.L.**, Harte, J., Ostling, A. 2003. Species richness, endemism and abundance patterns: tests of two fractal models in a serpentine grassland. *Ecology Letters* 6: 919-928
- Green, J.L.**, Harte, J., Ostling, A., 2001. Climate change and biodiversity loss, in *Biotic Homogenization: the Loss of Diversity Through Invasion and Extinction*. Edited by J. L. Lockwood and M. McKinney, Kluwer Academic/Plenum Publishers, New York.
- Ostling, A., Harte, J., **Green, J.L.** 2000. Self-similarity and clustering in the spatial distribution of species – technical comment. *Science* 290: 671a.
- Banavar, J.R., **Green, J.L.**, Harte, J., Maritan, A., 1999. Finite size scaling in ecology. *Physical Review Letters* 83(20): 4212-4214.
- Harte, J., Kinzig, A., **Green, J.L.** 1999. On the distribution and abundance of species – response to Maddux. *Science* 286: 1647a.
- Harte, J., Kinzig, A., **Green, J.L.** 1999. Self-similarity in the distribution and abundance of species. *Science* 284: 334-336.

GRANTS

Current

- Van Den Wymelenberg, K, **Green, J.L.**, Hickey, R. Dyson Hygiene and Hand Drying. \$35,000 (PI Van Den Wymelenberg). Dyson, Inc. 8/31/2016 – 07/31/2017.
- G.Z. (Charlie) Brown, Van Den Wymelenberg, K, Johnson-Shelton, D., **Green, J.L.** Impacts of weatherization on microbial ecology and human health. \$996,911 (PI Brown). Environmental Protection Agency. Alfred P. Sloan Foundation. 5/1/2015 – 4/30/2017.
- Green, J.L.**, Brown, G.Z. (Charlie), Huttenhower, C., Halden, R. Biology and Built Environment Center Renewal (Part 2). \$1,375,000 (PI Green). Alfred P. Sloan Foundation. 9/1/2015 – 8/31/2017.
- Eisen, J., Stachowitch, J., **Green, J.L.** Evolution, ecology, and function of microbial communities associated with seagrasses. \$771,855 (PI Eisen). Gordon and Betty Moore Foundation. 1/1/2014 – 12/31/2016.
- Guilleman, K., Postlethwait, J., Cresko, B., Conery, J., Johnson, E., Eisen, J., O'Day, E., Phillips, P., Parthasarathy, R., Bohannan, B., Levin, D., **Green, J.L.** Microbial Ecology and Theory of Animals Center of Excellence in Systems Biology. \$10,300,000 (PI Guilleman). NIH. 9/18/2012 – 6/30/2017.

Completed Research Support

- Green, J.L.**, Bohannan, B.J.M. and G.Z. (Charlie) Brown. Biology and Built Environment Center Renewal (Part 1). \$1,325,000 (PI Green). Alfred P. Sloan Foundation. 9/1/2013 – 9/1/2015.
- Green, J.** The Urban Microbiome. John Simon Guggenheim Memorial Foundation. \$40,000 (PI Green). 7/1/2013 – 6/31/2014.
- Green, J.** Microbial Community Assembly in Urban Environments. La Fondation de l'Ecole Normale Supérieure, France. \$260,000 (PI Green). 7/1/2013 – 7/31/2014.

Green, J.L., Bohannan, B.J.M. and G.Z. (Charlie) Brown. Center for Microbial Ecology of Indoor Environments. \$1,800,000 (PI Green). Alfred P. Sloan Foundation. 9/1/2010 – 7/1/2014.

Kembel, S., **Green, J.L.** Quantifying the scaling of bacterial phyllosphere diversity: the role of space, environment, and host plant attributes. \$20,000 (PI Kembel). Center for Tropical Forest Studies, Smithsonian Tropical Research Institute. 11/1/2010 - 6/30/2013.

Green, J.L., Eisen, J., Pollard, K. Integrating evolutionary, ecological and statistical approaches to metagenomics. \$1,800,000 (PI Green). Gordon and Betty Moore Foundation. 12/1/2007 – 12/31/2010.

Green, J.L., Bohannan, B.J.M., Brown, G.Z. Biological Diversity in the Indoor Environment. \$119, 948 (PI Green). Alfred P. Sloan Foundation. 12/01/2009 – 9/31/2010.

Giovannoni, S., Worden, A., Carlson, C., **Green, J.L.** Metagenomic Analysis of the North Atlantic Spring Bloom. \$160,000 (PI Giovannoni). Gordon and Betty Moore Foundation. 07/01/08 – 06/30/10.

Green, J.L. and B. J. M. Bohannan. Spatial scaling of bacterial biodiversity. \$480,000 (PI Green). NSF: DEB 0452454. 4/1/2006 – 3/31/2010.

Green, J.L. and B. J. M. Bohannan. Biological Diversity in the Indoor Environment. Alfred P. Sloan Foundation. \$119, 802 (PI Green). 5/1/2009 – 12/31/2009.

Green, J.L. Unifying Current Theories of Ecology. \$10,000. NSF: DEB 0628281. 9/1/2007-9/1/2008.

Garcia-Ojeda, M., McCloskey, K., Medina, M., Chin, W., **Green, J.L.** MRI: Acquisition of a flow cytometer for multiparametric analysis of environmental, microbial, and aquatic samples at UC Merced. \$ 294,158 (PI Garcia-Ojeda). NSF: DIB 0723268. 09/01/07 – 6/30/09.

Lise Øvreås, **Green, J.L.** Curtis, T, Sloan, B., Coulson, S. Microbial diversity of Ny-Ålesund soils: a preliminary study. \$40,000 (PI Øvreås). European Centre for Arctic Environmental Research. 6/1/2007-5/31/2008.

Green, J.L. Spatial scaling of microbial diversity in the environment: biostatistical challenges. \$50,000. NSF: MCB- 0500124. 10/01/2005 – 9/31/2006.

Green, J.L. Estimating global microbial biodiversity: a bioinformatics approach. Postdoctoral Fellowship in Biological Informatics. \$150,000. NSF-DEB 0107555. 1/1/2002 – 6/31/2004.

TEACHING AND ADVISING

University of Oregon Population Ecology (BI 471/571). Fall 2010, Winter 2010, Winter 2011, Sp 2013, Sp 2015

University of Oregon Biological Diversity (BI 375). Winter/Fall 2009, Winter 2011, Sp 2012, Sp 2013

University of Oregon Theoretical Ecology (BI 410/510). Fall 2008

UC Merced Introduction to Ecology (BIS 148/ES 292). Sp 2007

UC Merced Ecosystems of California (ESS 50). Sp 2006/2007

UC Merced Invasion Biology (ESS 298). Fall 2005

UC Merced Philosophy of Biology (ESS 298). Sp 2005

Complex Systems Summer School (CSSS), Santa Fe Institute (SFI) Faculty. Summer 2004

Ph.D. students:

Elizabeth Perry, 2007-2013, co-advised with Brendan Bohannan (Biology Department)

- Dissertation (defended May 21, 2013): “Gene, organism and environment: understanding patterns of genome evolution in bacteria and bacteriophage.”

Ann (Womack) Klein, 2009-2015

- Dissertation (defended August 10, 2015): “Microbial biodiversity of the atmosphere”
- Ashley Bateman*, 2011-present, co-advised with Brendan Bohannon (Biology Department)
- Awarded National Science Foundation Graduate Research Fellowship (2013)
- Gwynne Mhuireach*, 2013-present, co-advised with Bart Johnson (Landscape Architecture Department)
- Awarded EPA Science to Achieve Results (STAR) Fellowship (2014)

M.S. students:

Jessica Bryant, 2007-2008

- Thesis title: “Microbes on mountainsides: contrasting elevational patterns of bacterial and plant diversity”

Holly Arnold, 2011-2013, co-advised with John Conery (Computer and Information Science Department)

- Thesis title: “Use of Bayesian Networks to Model Potential Host Microbe Associations”

Undergraduate students:

Eric Zaneveld, 2009-2010

- Thesis title: “Uniting Metabolic and Neutral Theory on a Spatially Explicit Landscape”

Adam Burns, 2009-2010

- Thesis title: “Microbial communities in the built environment”

Mitzi Liu, 2009-2011

Jacob Reichman, 2011

Keith Herkert, 2011-2013

- Thesis title: “The influence of contact sports on the human skin microbiome”

Kyla Martichuski, 2012 – 2016 (Awarded Barry Goldwater Fellowship (2015))

- Thesis title: Atmospheric fungal communities exhibit temporal variation at Mt. Bachelor

Andrew Siemens, 2014 – 2016

- Thesis title: Dust Microbial Communities have Dosage-Dependent Responses to Daylight

Post-doctoral researchers and Research Associates:

Current: Roxanna Hickey, Ashkaan Fahimipour, Clarisse Betancourt

Former: Erica Hartmann, James Meadow (co-advised with Brendan Bohannon), Kathryn Docherty (co-advised with Brendan Bohannon), James O’Dwyer, Hélène Morlon, Tim O’Connor, Adam Altrichter, Evan Jones

UO Thesis Advisory Committees:

Steven McAllister (Biology Ph.D), Adam Bruns (Biology Ph.D), Erica Johnson (Biology M.S.), Allison Poole (Biology M.S.), Cameron Stewart (Biology Ph.D.), William Truce (Biology M.S.)

UNIVERSITY AND PUBLIC SERVICE

University of Oregon Committees

- Department of Biology Graduate Recruiting and Admissions (2014-15)
- Institute of Ecology and Evolution Quarterly Exam Contributor (Spring 2013; Fall 2014)
- UO Math-Biology Faculty Search (2012-2013)
- Department of Biology Strategic Planning (2010-2013)
- Department of Biology Undergraduate Research (2010-2012)
- Institute of Ecology and Evolution Seminar Series (2007-2011)
- Department of Biology Undergraduate Affairs Committee (2007-2009)

UC Merced Academic Committees

- School of Natural Sciences Space Policies Task Force (2004)
- School of Natural Sciences Teaching Work Load (2005)

- School of Natural Sciences Space Committee for Science and Engineering Building (2005)
- Environmental Systems Graduate Group Admission Committee (2005-06)
- White Mountain Research Station (WMRS) Advisory Committee (2005-2006)
- Sierra Nevada Research Institute (SNRI) Advisory Committee (2005-2006)

UC Merced Faculty Search Committees

- Member Ecosystem Science Faculty Search (2004)
- Member Statistics Faculty Search (2004)
- Member Sierra Nevada Field Station Manager Search (2004-2005)
- Member Ecosystem Science Faculty Planning/Search (2004 - 2005)
- Member Resource Economics Faculty Planning (2005)
- Member Energy Faculty Search (2005)
- Evolutionary Biology Faculty Planning/Search (2005 – 2006)
- Environmental Systems [Air Pollution] Faculty Planning/Search (2005 – 2006)
- Chair Microbial Ecology Senior Faculty Search (2006-2007)

SELECTED PRESS, PUBLIC SPEAKING AND OUTREACH

Magazine articles

Nautilus Magazine. Meet the neighbors you'll never see. Written by Jessica L. Green and Amy Maxmen, Illustrated by Steve M. Green. 2014.

Press (selected samples)

Wall Street Journal. Designing a hospital to better fight infection. 2015.
Fast Company. How architecture could shape your microbiome.
BBC News. Mobile phones carry owners' bacterial 'fingerprint'. 2014.
Wired. Architecture may influence which microbes surround you. 2014.
Time. What roller derby can tell you about our germs. 2013.
Forbes. Yogurt is probiotic. Why not your steering wheel? 2013.
Discover. Earth's last unexplored wilderness. Your very own home. 2012.
Science. Indoor Ecosystems. 2012.
Meet the Scientist, Carl Zimmer. The living air. 2010.

Public speaking (selected samples)

Innovative City Forum (Tokyo). Second Brain for the Smart City. 2015.
Institute of Medicine (of the National Academy of Sciences). Impact of Modern Lifestyles on the Human Microbiota (Panel Moderator). 2014.
American Association for the Advancement of Science (AAAS). The Recent Field of Microbiomes of the Built Environment, and Potential Impacts on Building Design and Human Health. 2014.
TED.Ed. You are your microbes. 2013.
TED.com. We're covered in germs. Let's design for that. 2013
TED.com. Are we filtering the wrong microbes. 2012.
TEDxPortland. Managing the magic of microbes. 2012.