

# Jessica Lee Green

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## EDUCATION

### University of California, Berkeley

Ph.D., Nuclear Engineering, May 2001

Dissertation Committee: William E. Kastenberg (Chair), John Harte, Per Peterson

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

### University of California, Berkeley

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

### University of California, Los Angeles

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

## PROFESSIONAL EXPERIENCE

- July 2007 – present **Assistant Professor.** Center for Ecology and Evolutionary Biology, University of Oregon, Eugene.
- July 2008 – present **External Faculty.** Santa Fe Institute, Santa Fe, New Mexico
- July 2004 – 2007 **Assistant Professor.** School of Natural Sciences, University of California, Merced.
- 2002 – 2004 **Postdoctoral Fellow.** University of Sydney (Andrew Holmes); Macquarie University (Mark Westoby); University of California, Davis (Alan Hastings). *NSF Postdoctoral Fellowship: Bioinformatics analysis of the effects of spatial scale and phylogenetic resolution on biodiversity theory: tests in a microbial landscape.*
- 2001 **Postdoctoral Researcher.** Rocky Mountain Biological Laboratory, Colorado. PI: John Harte.
- 2000 **Teaching Assistant.** University of California, Berkeley (UCB). Engineering Thermodynamics (Graduate Student Instructor Teaching Effectiveness Award).
- 1997 **Research Assistant.** Ecology Group, Los Alamos National Laboratory.
- 1993-1994 **Research Assistant.** Department of Civil and Environmental Engineering, UCB. PI: Lisa Alvarez-Cohen (Microbiology).
- 1992-1993 **Environmental Engineer.** Defense Nuclear Facilities Safety Board, Washington D.C.

## FELLOWSHIPS & AWARDS

- National Science Foundation Postdoctoral Fellowship in Biological Informatics, 2002 - 2005
- University of California President's Postdoctoral Fellowship, 2001 (declined)
- American Advancement of University Women Selected Professions Fellowship, 2000 - 2001
- University of California President's Dissertation-Year Fellowship, 2000 - 2001
- Phi Beta Kappa Northern California Association Graduate Scholarship, 2000
- UC Toxics Research and Teaching Program Fellowship, 1999 - 2000
- Graduate Student Instructor Teaching Effectiveness Award in Thermodynamics, 1999
- Alfred L. Brosio Scholarship, 1996
- Paul Lane Scholarship, Los Angeles Department of Water and Power, 1991
- Valedictorian, Antioch High School, California, 1987

## PUBLICATIONS

### *In Preparation*

**Green, J.L.** Changes in microbial communities through time. *Philosophical Transactions of the Royal Society*. This invited peer-reviewed manuscript will accompany an invited seminar to celebrate Royal Society of London 350<sup>th</sup> year anniversary, April 2010.

Morlon, H., Bryant, J., Docherty, K. Jones, E., Bohannan, B., **Green, J.L.\*** The global biogeography of microbial antibiotic production.

Kembel, S. and **J.L. Green\*** Metagenomics reveal phylogenetic diversity and turnover in marine microbial communities.

O'Dwyer, J. and **J.L.Green\*** Predicting global biodiversity: how many microbial taxa are there in the Earth's oceans?

### *In Review*

O'Dwyer, J. and **J.L.Green\*** Field theory for biogeography: a spatially explicit model for predicting patterns of biodiversity.

Morlon, H., Bryant, J., Marquet, P., Rebelo, T., Schwilk, T., Tauss, C., Bohannan, B., **Green, J.L.\*** Diversification rates and habitat loss predict the loss of evolutionary history.

Klepac-Ceraj, V., Lemon, K.P., Martin, T.R., Allgaier, M., Kembel, 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. Correlates of Respiratory Tract Microbial Community Structure in Cystic Fibrosis. [featured in *Nature* doi:10.1038/news.2009.808]

### *In Press*

**Green, J.L.** *Lady Lumps's Mouthguard*. Microbial Evolution 150 Years after The Origin of Species. S. Maloy & R. Kolter (eds.), ASM Press, Washington D.C.

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. Patterns and causes of species richness: a general simulation model for macroecology. *Ecology Letters*.

### *Peer Reviewed Publications*

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: 1505-1511.

- 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., Schwabach, 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., Sokyan, C.U., Uglund, 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., Naem, S., Øvreås, L., Reysenback, 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* 3]

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

### *Pending*

**Green, J.L.** and B.J. Enquist. \$ 909,754 (\$554,845 to PI Green). MSB & LiT: Environmental Diversity Gradients Across Life’s Domains. 1/1/2010 – 12/31/2013.

J.P. O’Dwyer and **J.L. Green**. \$450,000 (joint UO funds). From Complexity to Universality: A Field Theoretical Framework for Biological Systems. Defense Advanced Research Projects Agency “23 Mathematical Challenges” program (DARPA-BAA08-65). 1/1/2010 – 12/31/2013.

### *Current*

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

Giovannoni, S., Worden, A., Carlson, C., **Green, J.L.** \$160,000 (\$0 to co-PI Green). Metagenomic Analysis of the North Atlantic Spring Bloom. Gordon and Betty Moore Foundation. 07/01/08 – 06/30/10.

**Green, J.L.**, Eisen, J., Pollard, K. \$1,800,000 (\$422,795 to PI Green). Integrating evolutionary, ecological and statistical approaches to metagenomics. Gordon and Betty Moore Foundation. 12/1/2007 – 9/30/2010.

**Green, J.L.** and B. J. M. Bohannan. Spatial scaling of bacterial biodiversity. \$480,000 (\$277,000 to PI Green). NSF: DEB 0452454. 4/1/2006 – 3/31/2010.

#### *Completed Research Support*

**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. 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. 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. NSF-DEB 0107555. \$150,000. 1/1/2002 – 6/31/2004.

#### **TEACHING AND ADVISING**

**University of Oregon Biological Diversity (BI 375).** Spring 2009

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

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

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

**UC Merced Invasion Biology (ESS 298).** Fall 2005

**UC Merced Philosophy of Biology (ESS 298).** Spring 2005

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

#### *Student Advisor and Post-graduate Scholar Sponsor*

##### UC Merced Postdoctoral Researchers

- Ethan White, 2005-2007  
Awarded NSF Biological Informatics postdoctoral fellowship (co-advised with Dr. Brian Enquist at the University of Arizona)  
Currently faculty in the Biology Department at Utah State University
- H el ene Morlon, 2005-2007  
Relocated with Green to the University of Oregon

##### UC Merced M.S. Students

- Jeanie Hinds, 2005-2006  
Currently staff scientist at Turlock Irrigation District
- Daniel Santillano, 2005-2007

Currently PhD student at the Max Planck Institute for Marine Microbiology in the laboratory of Dr. Antje Boetius

- Yi-Huei Jiang 2006-2007

Awarded statistics fellowship from National Science Council of Taiwan (co-advised with Dr. Anne Chao of National Tsing Hua University, Taiwan)

Currently post-doctoral fellow in the laboratory of Dr. Chao

#### UC Merced Undergraduate Students

- Adam Clare 2006-2007

History major, currently intern with U.S. House of Representatives

- Miguel Manansala 2006-2007

Biology major, currently UC Merced student

#### UO Postdoctoral Researchers

- H el ene Morlon, 2007-2009

Currently joint post-doctoral fellow with Dr. Joshua Plotkin (University of Pennsylvania) and Dr. Matthew Potts (UC Berkeley)

- James O'Dwyer, 2007 – present

Awarded UK Engineering and Physical Sciences Research Council postdoctoral fellowship at the Life Sciences Interface 2010 - 2013

- Steven Kembel, 2007 – present

Former National Sciences and Engineering Research Council postdoctoral fellow in the laboratory of David Ackerly at UC Berkeley

- Kathryn Docherty, 2007 – present

Awarded NSF Biological Informatics postdoctoral fellowship 2008 – 2011 (co-advised with Brendan Bohannon)

#### UO Graduate Students

- Jessica Bryant 2007-2008 (M.S.)

Currently researcher in the laboratory of Matthew Potts (UC Berkeley)

Starting research scientist position in the laboratory of Ed DeLong (MIT) Fall 2009

- Liz Perry 2007 – present (Ph.D., co-advised with Brendan Bohannon)

Awarded Clarence and Lucille Dunbar Scholarship from the UO College of Arts and Sciences 2008 & 2009

#### UO Visiting Faculty

Ian Wright, faculty at Macquarie University, Australia, Spring 2008

Rampal Etienne, faculty at the University of Gronigen, Netherlands, Summer 2008

Brian Maurer, faculty at Michigan State University, Spring 2009

#### UO Undergraduate Students

- Adam Burns 2009 - current

Pursuing honors thesis in Biology (minor in mathematics)

- Mitzi Liu 2009 - current

Pursuing honors thesis in Robert D. Clarke Honors College

#### UO Thesis Advisory Committees

Jessica Bryant (M.S.)

Elizabeth Perry (Ph.D.)

Allison Poole (M.S.)

Cameron Stewart (Ph.D.)

## PROFESSIONAL ACTIVITIES

### Workshops and Working Groups

- Invited to participate in a joint working group with the National Center for Ecological Analysis (NCEAS) and the National Evolutionary Synthesis Center (NESCENT) titled *The statistics of non-experimental data across broad space and deep time*, 2010-2011. Organized by Marcus J. Hamilton, Felisa A. Smith and James H. Brown (University of New Mexico).
- Co-organizer of NCEAS working group addressing *Microbial biogeography: from taxonomy to traits*. (Santa Barbara) 2010. Organized in collaboration with Brendan Bohannan (University of Oregon) and Ian Wright (Macquarie University).
- Invited to participate in UKPopNet Workshop titled *Biodiversity upscaling* in Leeds, UK February 2009. Organized by Bill Kunin (University of Leeds).
- Co-organizer of NCEAS workshop addressing *Unifying current theories of Ecology* (Santa Barbara) 2007-2009. Organized in collaboration with Andrew Allen (NCEAS), Steve Hubbell (University of Georgia) and Pablo Marquet (Catholic University, Chile).
- Co-organizer of NCEAS workshop addressing *Tools and fresh approaches for species-abundance distributions* (Santa Barbara) 2006-2009. Organized in collaboration with Brian McGill (McGill University), Rampal Ettiene (University of Groningen), and John Gray (University of Oslo).
- Invited member of the Smithsonian Institution Biodiversity Science and Education Initiative (BSEI) Task Force 2007-2008. Organized by Steve Hubbell (University of Georgia) and supported by the MacArthur Foundation.
- Invited to participate in NCEAS workshop titled *Modeling species diversity* 2006-2008. Organized by Nick Gotelli (University of Vermont), Rob Colwell (University of Connecticut) and Carsten Rahbek (University of Copenhagen).
- Invited to participate in National Science Foundation workshop on *Scaling up from microscopic to macroscopic systems in biology* in Davis, California May 2007. Organized by Alan Hastings (UC Davis).
- Invited to attend and give a talk at the Third Annual California Metagenomics Workshop, Moore Foundation, California, April 2007.
- Chair of Santa Fe Institute working group *Unifying current theories of ecology*, September 2006. Co-organizers: Drew Allen (NCEAS), Steve Hubbell (University of Georgia), Pablo Marquet (Universidad Católica de Chile).
- Invited to participate in the First Field Workshop on Ecological Complexity *Approaches, challenges and opportunities for integration*, October 2005. Organizer: Pablo Marquet of the Universidad Católica de Chile, Santiago.
- Invited to attend and give a talk at the *Workshop on quantitative ecology* at the Abdus Salam International Center for Theoretical Physics (Trieste, Italy), May 2005.
- Member of working group at the NCEAS addressing *Patterns in microbial biodiversity* (Santa Barbara), April 2005. Organized by Brendan Bohannan (Stanford University).
- Member of UKPopNet Workshop *Application of macroecology theory and concepts in microbial ecology* in Aberdeen, March 2005. Organized by Jim Prosser of the School of Medical Sciences, University of Aberdeen.

- Member Scaling Biodiversity Workshop hosted by the Santa Fe Institute and the Center for Theoretical Study in Prague, Czech Republic. Organized by J. Brown, P. Marquet, D. Storch, G. West.
- Member National Science Foundation *Quantitative Environmental and Integrative Biology* (QEIB) Workshop, October 2003. Organized by Alan Hastings (UC Davis) and Peter Arzberger (UC San Diego).

### **Invited Conferences and Seminars**

- Royal Society of London 350<sup>th</sup> Year Anniversary Discussion Meeting Biological diversity in a changing world. London, April 2010. Organized by Anne Margurran and Maria Dornelas. Invited speaker: “Changes in microbial communities through time”.
- Microbial Sciences at Harvard Thursday Evening Seminar. Boston, February 2011. Host: Roberto Kolter. Invited speaker: Title TBD.
- Moderator for Special Symposium on the Human Microbiome, Ecological Society of America Annual Meeting. Albuquerque, New Mexico, August 2009. Organized by Brendan Bohannan and Vanja Klepac-Ceraj.
- Gordon Research Conference on Applied and Environmental Microbiology, Mount Holyoke, Maine, July 2009. Organized by Nicole Dubilier. Invited speaker: “Globe trotters: microbial life in the fynbos, kwongan and matorral” (declined).
- Special interest session *Genomics Enabled Biogeography of Planet Earth*, 109<sup>th</sup> Annual General Meeting, American Society of Microbiology. Philadelphia, May 2009. Organized by Keith Klugman and James Tiedje. Invited speaker: "Theory and Metagenomics-Based Biogeography".
- Department of Biological Applications and Technology, University of Ioannina, Greece, March 2009. Host: John Halley. Invited seminar: “Ecological theory and microbial metagenomics”.
- Department of Nuclear Engineering, UC Berkeley 50<sup>th</sup> Year Anniversary. Berkeley, September 2008. Invited speaker: “Celebrating William E. Kastenbergl”.
- Gordon Research Conference “Metabolic Basis of Ecology”, University New England, Maine, July 2008. Organized by Robert W. Sterner & Michael Kaspari. Invited speaker: “Microbial metabolic diversity: geography and dimensions”.
- Arthur M. Sackler Colloquia of the National Academy of Sciences “In Light of Evolution II”, Irvine, California, December 2007. Organized by John Avise, Steve Hubbell, and Francisco Ayala. Invited speaker: “Microbial diversity: geography and dimensions”.
- Department of Ecology and Evolutionary Biology, Michigan State University, November 2007. Host: Brian Maurer. Invited seminar “Microbial biodiversity: geography and dimensions”.
- Capstone Panel Discussion, American Museum Natural History symposium, *Small matters: microbes and their role in conservation*, New York City, April 2007.
- Fourteenth Annual Microbial Genomics Conference, Lake Arrowhead, California, September 2006. Organized by Jeff Miller. Invited speaker: “Spatial scaling of microbial biodiversity”.
- Discussion Leader Gordon Research Conference “Metabolic Basis of Ecology”, Bates College, Maine, July 2006. Organized by Pablo Marquet and Val Smith.

- Department of Biological Sciences at Stanford University, May 2006. Host: Joan Roughgarden. Invited seminar “Probing patterns of microbial biodiversity”.
- Department of Ecology and Evolutionary Biology at the University of Arizona, Tucson, March 2006. Host: Brian Enquist. Invited seminar “Spatial scaling of microbial diversity”.
- Invited contributor to the Ecological Society of America oral session *Scaling species abundance, distribution and diversity: from pattern to process*, Montreal, August 2005. Organized by William Kunin.
- Department of Ecology and Evolutionary Biology at the University of California, Irvine, February 2005. Host: Francisco Ayala. Invited seminar “Spatial scaling of microbial diversity”.
- Rocky Mountain Biological Laboratory Symposium, July 2003. Host: Ian Billick. Invited talk “Exploring spatial patterns of biodiversity from microorganisms to macroorganisms in Sturt National Park Australia”
- Smithsonian Tropical Research Institute, Panama, October 2003. Host: Rick Condit. Invited talk “Spatial scaling of species richness, endemism and abundance: contrasting two fractal models in a serpentine landscape”.
- Macquarie University, Sydney, 2002. Host: Andy Beattie. Invited talk “Patterns in the spatial distribution and abundance of species”.
- Brown-Milne Lab, University of New Mexico, 2002. Host: Jim Brown. Invited talk “Macroecological patterns predicted from self-similarity: tests in a serpentine grassland”.
- Santa Fe Institute, New Mexico, 2002. Host: Jennifer Dunne. Invited talk “Macroecological patterns predicted from self-similarity: tests in a serpentine grassland”.
- Levin-Pacala Lab Tea, Princeton University, 2001. Host: Simon Levin. Invited talk “Self-similarity in the distribution and abundance of species”.

### **Grant Panels and Reviewing**

- Member of the NSF Ecological Biology Panel Spring 2006.
- Member of the Advisory Panel for the NSF Undergraduate Mathematics and Biology Program during Spring 2005.
- Reviewer of grant applications for NSF.

### **Manuscript Reviewing**

Nature, Science, Proceedings of the National Academy of Sciences, Ecology, Ecology Letters, Global Ecology and Biogeography, Functional Ecology, Journal of Applied Ecology, Oikos, Oecologia, Environmental Microbiology, Ecography,

### **MEDIA**

- “Microbes, by latitudes and altitudes, shed new light on life's diversity” by Jim Barlow, 2008. *Science Daily*.
- “Biogeography: is everything everywhere”? by John Whitfield, 2005. *Science* 310: 960-961.
- “Untangling and entangled bank” by Storch, D., Marquet, P.A., and Gaston, K. 2005. *Science* 307: 684-686.
- “UC Merced Interdisciplinary Studies” by Tanya Schevitze, 2005. *San Francisco Chronicle*.
- “Birds, butterflies, bacteria: same law of biology appears to apply” 2004. *University of Washington News*.
- “Fungi diversity key to soil health” by Heather Catchpole, 2004. *Australia Broadcasting Corporation*.

## UNIVERSITY AND PUBLIC SERVICE

### University of Oregon Committees

- CEEB Seminar Series (2007-2009)
- Department of Biology Undergraduate Affairs Committee (2007-2009)

### Outreach

- Merced City School District (MCSD). *Green initiated a K-12 biodiversity education program. The program was designed to stimulate the enthusiasm of underrepresented groups in science education.*

### 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)