

CURRICULUM VITAE (updated 15 November 2009)

JOSHUA J. TEWKSBURY

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Personal information

Born: January 20, 1969

Appointments

9/2008 – Present	Director – Conservation of Living Systems Graduate Program
9/2008 – Present	Associate Professor, University of Washington
9/2003 – 9/2008	Assistant Professor, University of Washington
6/2002 – 9/2003	Post-doctoral Fellow, University of Florida “Why are chilies hot? Chemical ecology of fruit-frugivore interactions”
3/2000 – 6/2002	Post-doctoral Fellow, University of Florida “Experimental tests of landscape fragmentation and patch connectivity effects on pollination and seed dispersal”

Education

5/2000	Ph.D., Organismal Biology and Ecology, University of Montana “Breeding Biology of Birds in a Western Riparian Forest: from Demography to Behavior” (Thomas Martin, advisor)
5/1992	B.A., Field Biology, Prescott College, Prescott, AZ.

Research Grants – pending

National Science Foundation (first submission July 2009: \$890,000 – UW = \$251,861)

A landscape-level test of road effects on ecological connectivity (Collaborative Research: with R. Long, B. McRae, and T. Clevenger)

National Science Foundation (resubmission January 2010: \$837,810 – UW = \$274,275)

Chemical Evolution and Local Adaptation: Insights from a Spicy Polymorphism (Collaborative Research: with J. McKay and D. Levey) – reviews from Jan. 2009 panel: 3 excellent, 3 very good, 1 very good / good).

Guggenheim Fellow Proposal (submitted September 2009)

The Ecology of Climate Change – a Sabbatical Proposal (Tewksbury is Sole PI).

University of Washington Environmental Institute (submitted September 2009: \$60,000)

Natural History: from decline to rebirth – workshop proposal. (Tewksbury is Sole PI).

Department of Global Health / College of the Environment (submitted October, 2009: \$200,000)

Center Proposal: Climate Change and Global Health: Adaptive Solutions for Human Health and the Environment (Collaborative Research with T. Hinckley, R. Fenske, and J. Parrish) – ½ funds already promised by College of the Environment.

Wilburforce Foundation (submitted October 1, 2009: \$37,000)

Climate Smart Connectivity Working Group (PI w/ M. Krosby as CoPI).

Research Grants – funded (*does not include graduate-student research grants – see graduate students section – or program development – see synergistic activities*)

2009 **National Science Foundation (\$96,000 – final agreement pending)**

Natural History: from decline to rebirth – workshop proposal. (Tewksbury is Sole PI).

2008 **National Science Foundation (\$412,580 + \$24,000 supplement 2009)**

What is the fate of a silent forest? The importance of avian seed dispersal and herbivore control for tropical forest community structure (PI – Co-PIs include J. Hille Ris Lambers, R. Miller and A. Moore)

Research Grants – funded (cont.)**USDA CSREES (\$399,294)**

The indirect impacts of the invasive Brown Treesnake on forests and agriculture in Guam (PI w/ J. Hille Ris Lambers as co-PI)

Brainerd Foundation / Wilburforce Foundation (\$10,000)

Climate and Connectivity in the Pacific Northwest – Bringing theory and management together (PI)

2007 **NCEAS / NESCent working group (4 meetings)**

Mechanistic distributions models: energetics, fitness, and population dynamics (PI w/ Lauren Buckley, Robert Holt, and Mike Angilletta)

2006 **National Science Foundation (\$479,802)**

Effects of Corridors and Edges on Plant Populations” (PI – Collaborative Research: with D. Levey, N. Haddad, and E. Damschen)

2006 **National Science Foundation (\$30,948)**

Using a stable isotope to track the fate of seeds and seedlings” (PI, with T. Carlo)

National Geographic Society (\$27,500)

Biogeography of a major spice (PI)

2005 **Royalty Research Fund, University of Washington (\$27,584)**

The Price of Chemical Protection: Establishing tradeoffs between primary and secondary metabolite production (PI)

2002 **National Geographic Society (\$15,400)**

Why Chillies Are Hot—Evolution and Pungency in Wild Chillies (PI)

National Science Foundation (\$6,000)

Research Experience for Undergraduates” (Co-PI w/ D. Levey)

2001 **National Science Foundation (\$320,000)**

Why Are Chillies Hot? An Integrative Exploration of Secondary Metabolite Function in Ripe Fruit” (PI - Collaborative Research w/ D. Levey)

University of Florida CLAS research award (\$17,000)

Pollen and Seed Dispersal in Fragmented Landscapes” (Co-PI w/ D. Levey as PI)

National Science Foundation (\$12,000)

Research Experience for Undergraduates” (Co-PI w/ D. Levey)

2000 **U.S. Forest Service (\$68,000)**

The Role of Fruit and Pollen Consumers in Promoting Diverse-Fleshy-Fruited Plant Communities” (PI w/ D. Levey, N. Haddad, S. Sargent, B. Danielson as Co-PI’s)

1999 **National Science Foundation, Dissertation Improvement Grant (\$9,800)**

Tradeoffs in Parental Care: Balancing Costs of Brood Parasitism and Nest Predation” (IBN-990212, Co-PI w/ T. Martin as PI)

‘95-‘99 **U.S. Forest Service (\$170,000)**

Nesting Productivity and Fragmentation in Western Riparian Forests (PI w/ S. Hejl and T. Martin as co-PIs)

‘95-98 **United States Fish and Wildlife Service, Nongame Bird Program (\$31,000)**

Linking Seasonal Fecundity to Annual Survival in Neotropical Migratory Songbirds” (PI w/ S. Hejl and T. Martin as Co-PIs)

1996 **Montana Fish, Wildlife and Parks (\$2,500)**

Cowbird Movements and Demographic Costs to Songbirds” (PI)

1995 **Native Seeds/SEARCH, research and travel grants (\$2500)**

Publications (*underlines = graduate students, double-underlines = undergraduates*)

- In final prep Kosydar, A., Tewksbury, J.J., Rumiz, D., Conquest, L. Disentangling the conflation of fragmentation and hunting. **Conservation Biology**
- Haak, D.C., McGinnis, L., Levey, D.J., Tewksbury, J.J. Why aren't all chilies hot? **Nature**
- 2009 Krosby, M., Tewksbury, J.J. Haddad, N., and Hoekstra, J. *in review*. Smart Connectivity for a changing climate. **Conservation Biology**
- Gilman, S.E., Urban, M., Tewksbury, J.J., Gilchrist, G.W., Holt, R.D. *in revision*. The great unknown: community interactions under climate change. **Trends in Ecology and Evolution**.
- Martin, P., Bonier, F., Moore, I. and Tewksbury, J.J.. *in revision* Latitudinal variation in the asynchrony of seasons. **Ideas in Ecology and Evolution**
- Carlo, T.A., Tewksbury, J.J., Martínez del Río, C. *In Press*. New method to track seed dispersal and recruitment using ¹⁵N isotope marking. **Ecology**
- Brudvig, L. A. E. I. Damschen, J. J. Tewksbury, N. M. Haddad, and D. J. Levey. 2009a. Corridors promote biodiversity halos surrounding target habitat. **Proceeding of the National Academy of Sciences** 106:9328- 9332
- Huey, R.B. Deutsch, C., Tewksbury, J. J., Vitt, L. J., Hertz, P.E., Álvarez Pérez, H. J. 2009. Why tropical forest lizards are vulnerable to climate warming. **Proceedings of the Royal Society – Series B** 276:1939-1948
- Huey, R.B. and Tewksbury, J.J. 2009b. Can behavior douse the fire of climate warming? **Proceedings of the National Academy of Sciences** 106:3647-3648.
- Haddad, N.M. Hudgens, B., Damschen, E.I. , Levey, D.J. Orrock, Tewksbury, J. J., Weldon, A. *In Press*. Assessing both Positive and Negative Effects of Corridors *In: Sources, Sinks and Sustainability across Landscapes*.
- 2008 Damschen, E.I., Brudvig, L.A., Haddad, N.M, Levey, D. J. Orrock, J.L., Tewksbury, J. J. 2008a. The movement ecology and dynamics of plant communities in fragmented landscapes. **Proceedings of the National Academy of Sciences** 105:19078-19083
- Tewksbury, J. J.; R. B. Huey, and C. Deutsch. 2008. Climate Warming Puts the Heat on Tropical Ectotherms. **Science** 320:1296-1297.
- Tewksbury, J. J. K. M. Reagan, N. J. Machnicki, T. A. Carlo, D. C. Haak, A. L. Calderón-Peñaloza and D. J. Levey. 2008b. The evolutionary ecology of pungency in wild chilies **Proceedings of the National Academy of Sciences** 105:11808-11811

Publications (cont.; *underlines = graduate students, double-underlines = undergraduates*)

- 2008 (cont.) Deutsch, C*. J. J. Tewksbury* R. B. Huey K. Sheldon C. Ghalambor D. Haak P. R. Martin. 2008c. Impacts of climate warming on terrestrial ectotherms across latitude. **Proceedings of the National Academy of Sciences** 105 (16) 6668-6672 (*Tewksbury and Deutsch contributed equally).
- Tewksbury, J.J., D.J. Levey, M. Huizinga, D. Haak and A. Traveset. 2008. Costs and benefits of capsaicin-mediated control of gut retention in dispersers of wild chilies. **Ecology** 89; 107-117.
- Martin, P.R., and J.J. Tewksbury. 2008. Latitudinal variation in subspecific diversification of birds. **Evolution**. 62-11: 2775–2788
- Levey, D. J., J. J. Tewksbury, B. M. Bolker. 2008. Modeling long-distance seed dispersal in heterogeneous landscapes. **Journal of Animal Ecology** 96:599-608
- 2007 Martin, P.R., F. Bonier, and J.J. Tewksbury. 2007. Revisiting Jablonski (1993). 2007. cladogenesis and range expansion explain latitudinal variation in taxonomic richness.. **Journal of Evolutionary Biology**. 20 (3): 930-936
- Bronstein, J.L, I. Izhaki, R. Nathan, J.J. Tewksbury, O. Spiegel, and A. Lotan. 2007 Fleshy fruited plants and frugivores in desert ecosystems In: A. Dennis, E. Schupp, R. Green, and D. Westcott, editors. Seed dispersal: Theory and its application in a changing world Wallingford, UK: CAB international.
- Levey, D.J., I. Izhaki, J.J. Tewksbury, E. Tsahar., and D Haak. 2007. The primary importance of secondary compounds in fruits: case studies with capsaicin and emodin In: A. Dennis, E. Schupp, R. Green, and D. Westcott, editors. Seed dispersal: Theory and its application in a changing world Wallingford, UK: CAB international.
- Lloyd, J. and J.J. Tewksbury. 2007. Analyzing avian nest survival in forests and grasslands: a comparison of the Mayfield and logistic-exposure methods. **Studies in Avian Biology**. 34:96-104.
- Haddad, N. and J.J. Tewksbury. Impacts of corridors on populations and communities. 2007. In Crooks and Sanjayan. Connectivity Conservation. Island Press Pg 391-415.
- 2006 Damschen, E.I, N.M. Haddad, J.L. Orrock, J.J. Tewksbury, and D.J. Levey. 2006. Corridors increase plant species richness at large scales. **Science**. 313: 1284-1286
- Levey, D.J., J.J. Tewksbury, M. Cipollini, and T.A. Carlo. 2006. A field test of the directed deterrence hypothesis in two species of wild chili. **Oecologia** 150: 51-68.
- Tewksbury J.J., C. Manchego, D. Haak, and D.J. Levey. 2006. Where did the chili get its spice? Biogeography of capsaicinoid production in ancestral wild chili species. **Chemical Ecology** 32: 547-554.
- Tewksbury, J.J., L. Garner, S. Garner, J.D. Lloyd, V. Saab, and T.E. Martin. 2006 Alternative hypotheses of landscape influence on nest predation and brood parasitism in fragmented ecosystems. **Ecology** 87: 759-768.

Publications (cont.; *underlines = graduate students, double-underlines = undergraduates*)

- 2006 (cont.) Ghalambor, C.K., R.B Huey, P.R. Martin, J.J. Tewksbury, and G. Wang. 2006. Are mountain passes higher in the tropics? Janzen's hypothesis revisited. **Integrative and Comparative Biology** 46: 5-17
- 2005 Levey, D.J., B. M. Bolker, J. J. Tewksbury, S. Sargent, and N. M. Haddad. 2005. Modeling bird movement in experimental landscapes reveals how habitat corridors affect seed dispersal. **Science** 309: 146-148.
- Filardi, C., and J. J. Tewksbury, J. 2005. Ground-foraging palm cockatoos (*Probosciger aterrimus*) in lowland New Guinea: fruit flesh as a directed deterrent to seed predation? **Journal of Tropical Ecology** 21: 1-7.
- Haddad, N and J. J. Tewksbury, J. 2005. Low-Quality habitat corridors as movement conduits for butterflies. **Ecological Applications** 15: 250-257
- 2003 Deppe, C., D. Holt, J.J. Tewksbury, L. Broberg, J. Peterson, and K. Wood. 2003. Effect of Northern Pygmy-owl (*Glaucidium gnoma*) eyespots on avian mobbing. **Auk** 120:756-771.
- 2002 Tewksbury, J. J., T. E. Martin, S. J. Hejl, M. J. Kuehn, and J. W. Jenkins. 2002. Parental behavior of a cowbird host: caught between the costs of egg-removal and nest predation. **Proceedings of the Royal Society of London -- Biological Sciences** 269:423-429.
- Tewksbury, J. J., D. J. Levey, N. M. Haddad, , S. Sargent, J. L. Orrock, A. Weldon, B. J. Danielson, J. Brinkerhoff, E. I. Damschen, P. Townsend. 2002. Corridors affect plants, animals, and their interactions in fragmented landscapes. **Proceedings of the National Academy of Sciences** 99:12923-12926.
- Tewksbury, J. J. 2002. Fruits, Frugivores, and the evolutionary arms race. **New Phytologist** 156:137-144
- Cilimburg, A. B., M. L. Lindberg, J.J. Tewksbury, and S. J. Hejl. 2002. Survival probability of adult Yellow Warblers in Montana: Effects of dispersal and model types. **Auk**.199:778-789.
- Tewksbury, J.J., A.B. Black, N. Nur, V. Saab, B.L. Logan, and D.S. Dobkin. 2002. Effects of anthropogenic fragmentation and livestock grazing on western riparian bird communities. **Studies in Avian Biology** 25:158-202.
- 2001 Tewksbury, J.J. and G.P. Nabhan. 2001. Directed deterrence by capsaicin in chillies. **Nature** 412:403-404.
- Tewksbury, J.J. and J.D. Lloyd. 2001. Positive interactions under nurse plants: spatial scale, stress gradients and benefactor size. **Oecologia** 127:425-434.
- 1999 Tewksbury, J.J., G.P. Nabhan, D. Norman, H. Suzan, J. Tuxill, and J. Donovan. 1999. In situ conservation of wild chiles and their biotic associates. **Conservation Biology** 13:98-107.
- Tewksbury, J.J., T.E. Martin, S.J. Hejl, T. Redmen and J. Wheeler. 1999. The occurrence and relative abundance of cowbirds in a western valley: landscape, vegetation and host density effects. **Studies in Avian Biology** 18:23-33.

Publications (cont.; *underlines = graduate students, double-underlines = undergraduates*)

- 1999 Hochachka, W., T.E. Martin, J.A. Collaz, E.E. Klas, D. Curson, P.B. Wood, T. Donovan, D.M. Evan, M. (cont.) Knuts, J. Manoli, G. Geupel, K. P. McFarland, V. Artman, L. Garner, N. Mathews, J.J. Tewksbury, C. Geugen, L. Petit, S. Garner, D. Anderson, et al.. 1999. Scale dependence in the effects of forest coverage on parasitism by brown-headed cowbirds. **Studies in Avian Biology** 18:80-98.
- 1998 Tewksbury, J.J., S.J. Hejl, and T.E. Martin. 1998. Breeding productivity does not decline with increasing fragmentation in a Western Landscape. **Ecology** 79:2890-2903.
- 1995 Martin, T. E., I. J. Ball, and J.J. Tewksbury. Environmental perturbations and rates of nest predation in birds. 1995. Transactions of the 61st North American Wildlife and Natural Resources Conference.
- 1994 Tewksbury, J.J. and C.A. Petrovich. 1994. The Influence of Ironwood as a habitat modifier species. Pp. 29 - 54 in J. P. Nabhan and J. L. Carr, eds.; Ironwood: An ecological and cultural keystone of the Sonoran Desert. University of Chicago Press.

Books

- 1992 Tewksbury, J.J. Watching Prescott butterflies, a natural history and field guide. 1992. 86p. 10 plates. Gravity Press, Prescott, Arizona.

Awards and fellowships

- 2003 International Association for landscape Ecology – U.S. Chapter, Outstanding Paper in the discipline of Landscape Ecology, for “Corridors affect plant, animals, and their interactions in fragmented landscapes” PNAS 99:12923-26
- 1998 University of Montana, Pre-Doctoral Honors Fellowship for academic and research achievement, \$14,000
- 1998 Clancy Gordon Fellowship for demonstrated application of scientific research toward the resolution of an environmental problem, \$2000
- 1998 Bertha Morton Scholarship for academic achievement, \$3000
- 1997 American Ornithologists' Union Council Award for best student paper
- 1996 Cooper Ornithological Society, Travel Award, \$500
- 1995 Cooper Ornithological Society, Student Membership Award

Invited Seminars

- 2010 Gordon Research Conference on Plant-Herbivore Interactions – Galveston
Department of Biology – Dartmouth (*graduate student pick*)
Wildlife Department – University of Florida (*graduate student pick*)
- 2009 Department of Biology – Western Washington University
- 2008 Department of Plant Biology – University of California at Davis
Department of Plant Biology - University of Miami at Ohio
Department of Zoology – University of Miami at Ohio
- 2007 Department of Ecology and Evolutionary Biology – University of Colorado, Boulder
Program on Climate Change, Friday Harbor Symposium
- 2006 Department of Biology, University of Victoria, Victoria, BC.
Department of Ecology and Evolutionary Biology – University of Missouri, St. Louis
Department of Biology – Washington State University, Vancouver
- 2005 Department of Ecology and Evolutionary Biology – Cornell University

Invited Seminars (continued)

- Department of Ecology and Evolutionary Biology – University of Arizona
Fourth International Symposium on Frugivores and Seed dispersal, Australia
- 2004 Department of Zoology and Physiology – University of Wyoming
Department of Zoology and Physiology - Colorado State University
- 2003 University of Heidelberg, Germany
- 2002 Department of Zoology, University of Washington
Department of Zoology, University of Oregon
- 2001 Department of Zoology, University of British Columbia
Department of Biology, University of Pittsburg
Department of Zoology, University of Florida
- 2000 Department of Zoology, Duke University
Third international Symposium on Frugivores and Seed dispersal, Brazil
University of Georgia Savannah River Ecology Lab
Department of Zoology, North Carolina State University
Department of Biology, Berry College
- 1999: Department of Ecology and Evolutionary Biology, University of Arizona, Native Seeds/SEARCH, Cooper Ornithological Society, invited symposium—effects of fragmentation, Bitterroot Ecosystem Management Research Project 1997: Prescott College, 1996: Breeding Bird Research and Monitoring Database National Meeting; 1995: Blue Mountain Natural Research Institute

Society membership

Ecological Society of America, Society for Integrative and Comparative Biology, Society for Conservation Biology.

Reviewer for

National Science Foundation (panels and grants), US-Israeli Binational Science Foundation, German-Israeli Binational Science Foundation, Department of Defense, National Geographic Society, Science, Proceedings of the National Academy of Sciences, Ecology, Trends in Ecology and Evolution, Ecology Letters, Biology Letters, Chemical Ecology, Molecular Ecology, Conservation Biology, Ecological Applications, Oecologia, Journal of Ecology, Biodiversity and Conservation, New Phytology, The Auk, The Condor, Ethology, Ecology and Behavior, Prentice Hall (Biology text).

Papers contributed at National Society Meetings

Ecological Society of America (24 papers from 1999-2009), Society for the Study of Evolution (3 papers, 2001, 2005), American Ornithological Union (9 papers, 1996-2000), Cooper Ornithological Society (4 papers, 1997, 1998, 2005), Society for Restoration Ecology (1 paper 2005)

Courses

Biology 180 - Evolution and Ecology, Biology 476 - Conservation Biology, Biology 560 - Tropical ecology, evolution, and behavior, Biology 560 -Grant Writing, Biology 481 - Experimental Evolutionary Ecology, Biology 482 - Advanced Experimental Evolutionary Ecology, Biology 562 - Advanced Ecology.

Post-doctoral Associates (major research funding and current status)

Tomas Carlo (2007-2007; **NSF Minority postdoc** 2005 (\$100,000), job offers University of Florida and Penn State in 2007, accepted Assistant Prof. Position at Penn State).

Lars Brudvig (2007-2009; Corridor Research Group Coordinator – NSF funded; accepted Assistant Prof. Position at Michigan State, starting Jan 2010)

Meade Krosby (2009 – present; Funded by Wilburforce and the Brainard Foundation).

Graduate Students (major research funding, co-advising, current status)

Paul Martin (**NSERC Post-doctoral recipient** 2006 (\$80,000), graduated 2006, currently an assistant Prof. at Queens)
David Haak (**NSF Predoctoral Fellowship** 2006 (\$91,500) 4th year student)
Kimberly Sheldon (International IGERT Fellowship 2005 (\$68500), and **NSF Predoctoral Fellowship 2006** (\$91,500), 4th year student)
Andrew Van Eck (**NSF Predoctoral Fellowship** 2005 (\$91,500), 4th year student)
Haldre Rogers (**NSF Predoctoral Fellowship** 2005 (\$91,500) International IGERT Fellowship (\$68500), **NSF DDIG** (\$12,000) 3rd year student)
Noelle Machnicki (**NSF DDIG** (\$11,000), 3rd year student)
Karen Reagan (Plant Biology Fellowship – 4 quarters, co-advisor with Janneke Hille Ris-Lambers, 1st year student).
Dan Evans (transferred from Boersma lab in 2006, 2nd year student)

Undergraduate mentoring (*competitive undergraduate research funding*)

Cat Adams (Native American - technician, *Mary Gates Fellowship, Frye-Hotson-Rigg Fellowship*)
Jason Borschet (*Mary Gates Fellowship*)
Carolyn Bauer (*Howard Hughes Intern*)
Alejandra Lorena Calderon Penalosa (Bolivian - technician),
Antoinette Desiree Asemota (Work-study)
Anna Kramer (*Howard Hughes Intern*)

Undergraduate mentoring (status, *competitive undergraduate research funding*) – cont.

Anastasia Melaney Ganas (independent research, *Howard Hughes Course development funds*)
Charise Horimoto (Work-study)
Tara Kinney (*Howard Hughes Intern*)
Steve Kloss (independent research)
Carlos Manchego (Bolivian - technician)
Leslie McGinnis (*Mary Gates fellowship, NSF REU*)
Haley Morris (Pacific Islander - *Mary Gates fellowship, work-study, Howard Hughes Fellow*)
Hillarie Morris (Pacific Islander - Workstudy)
Dominique James Ngu (Workstudy)
Lia Beth Nogas (*Howard Hughes Intern*)
Juan Andres Pagan (Puero Rican – research technician)
Corinna Pinzari (native american - Work-study)
Karen Reagan (*Mary Gates fellowship, Sigma Xi*)
Melissa Simon (Indonesian - *Mary Gates fellowship*)
Deepti Singh (Volunteer researcher)
Tara Smiley (*Mary Gates fellowship, Independent Study*)
Susan Taylor (technician, *Mary Gates fellowship, Frye-Hotson-Rigg*)
Nash Turley (*NSF REU, Frye-Hotson-Rigg*)
David Wu Le (Workstudy)
Anna Maria Zapag Ruta (Bolivian - technician)

Leadership / Service

Director - Conservation of Living Systems Graduate Program (2008-present) – College of the Environment.

Director: Climate Impacts Sub-group (2009-present), in the Washington Habitat Connectivity Working Group

Core member: Washington Wildlife Habitat Connectivity Working Group (2008-present)

Special Advisor to the Provost (2007-Present) – UW College of the Environment

Board Member (2004-2007) – University of Washington Earth Initiative

Board-member (2007-Present) – Conservation Leadership Program

Board-member (2007-Present) - Program on the Environment -UW.

Co-chair (2007-present)– Ecology and Conservation Biology strategic Planning committee

Founder and Coordinator (2005-2008) – UW Natural History Seminar Series (4 years and running)

Creator and Coordinator (2008-2009) – Coffee, The World in Your Cup: Sustainable Livelihoods and Ecosystems (multi-program seminar series)

Co-founder and Co-coordinator (2008-2009) – The Environmental Millennium Speakers Series (College of the Environment Seminar Series)

Faculty (2008 – present) – Interdisciplinary PhD Program in Urban Design and Planning

Committees: Graduate Committee (2005-2008), Curriculum Committee (2008-present), currently serving on the thesis committee for over 20 graduate students in three colleges.