

November, 2015

**CURRICULUM VITAE**

JONATHAN ALAN PATZ, MD, MPH

**PERSONAL DATA**

Professor and John P Holton Chair in Health and the Environment  
 Director, Global Health Institute  
 (Faculty Appts): Nelson Institute for Environmental Studies & Dept. Population Health Sciences  
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**EDUCATION AND TRAINING**

**B.A./1980** Colorado College / Biology

**M.D./1987** Case Western Reserve University, School of Medicine

*Postdoctoral Training*

1987-'90 **Family Medicine Residency**  
 Medical University of South Carolina, Charleston, South Carolina

**MPH/1992** **Masters of Public Health Program**  
 Johns Hopkins School of Hygiene and Public Health, Baltimore, Maryland.

1993-'94 **Occupational and Environmental Medicine Residency**  
 Johns Hopkins School of Hygiene and Public Health, Baltimore, Maryland

*Medical Licensure*

Maryland (active) -D42440, Montana (inactive)

*Medical Boards*

1990 **American Board of Family Practice Certification (Recertified, 1996)**  
 1997 **American Board of Occupational and Environmental Medicine**

**PROFESSIONAL EXPERIENCE**

2015- Current **John P. Holton Chair in Health and the Environment**

2011- Current **Director**, Global Health Institute, University of Wisconsin-Madison

2008-Current **Professor**, Nelson Institute for Environmental Studies; & Department of Population Health Sciences, University of Wisconsin-Madison; **Faculty Affiliate** of the La Follette School of Public Affairs; **Director**, Global Environmental Health

2004-2008 **Associate Professor**, Nelson Institute for Environmental Studies; & Department of Population Health Sciences, University of Wisconsin-Madison.

- 2004-Current **Adjunct Associate Professor**, Department of Environmental Health Sciences, Johns Hopkins Bloomberg School of Public Health.
- 2004-Current **Affiliate Scientist**, National Center for Atmospheric Research (NCAR)
- 1999- 2004 **Assistant Professor**, Department of Environmental Health Sciences, Johns Hopkins Bloomberg School of Public Health.  
**Joint Appointments:** Departments of: 1) Molecular Microbiology & Immunology; 2) Epidemiology; 3) International Health; 4) Medicine (School of Medicine); 5) Earth and Planetary Sciences (School of Arts and Sciences).
- 1997-99 **Assistant Scientist**, Department of Environmental Health Sciences, Johns Hopkins Bloomberg School of Public Health.
- 1996- 2004 **Director**, Program on Health Effects of Global Environmental Change, Johns Hopkins Bloomberg School of Public Health.
- 1994-96 **Research Associate** – Department of Molecular Microbiology & Immunology, Johns Hopkins Bloomberg School of Public Health.
- 1990-94 **Clinician**, Family Practice  
Missoula, Montana and Baltimore, Maryland.  
Practiced clinical family medicine.
- 1981-83 **Research Assistant**, Children’s Hospital, Boston, MA.  
Researched early biomarkers for breast malignancies in cancer strain mice.
- 1979-80 **Wildlife Biologist**, Colorado Division of Wildlife and Peregrine Falcon Fund.  
Analyzed prey species DDT content and traced geographic pathway of this pesticide.

## HONORS AND AWARDS

### *Awards*

**Homer Calver Award for Leadership in Environmental Health, American Public Health Association, 2015.** <http://ghi.wisc.edu/ghi-in-action/patz-receives-apha-award-for-environmental-leadership/>

**The John P Holton Endowed Faculty Chair in Health and the Environment, 2015 – present.**

**Fulbright Scholar Award, 2014.**

**H.I. Romnes Faculty Fellowship Award of the University of Wisconsin, 2009**

**Nobel Peace Prize, 2007** (awarded to UN IPCC Lead Authors & Co-chairs, along with Al Gore)

**Zayed International Prize for the Environment, 2006** (awarded to Lead Authors and Co-chairs of the Millennium Ecosystem Assessment)

**Aldo Leopold Leadership Fellow, 2005**

**Senior Fellow** of the UW Program for World Affairs and the Global Economy, 2005.

**Family Medicine Teaching Award, 1989.**

## SAMPLE LINKS FROM PUBLIC LECTURES:

Keynote for PSR's Climate Health Summit, 2015: "[Climate and Health: Where We Stand.](#)"

[Congressional Testimony to US Senate](#) – Chaired by Ted Kennedy, April 10, 2008

## SAMPLE LINKS FROM NEWS ARTICLES

Guardian article, 2014: <http://gu.com/p/426h7/tw>

Huffington Post Blog 2014: [huff.to/YHubPQ](http://huff.to/YHubPQ)

[http://www.huffingtonpost.com/2014/09/22/climate-change-health-biking-carbon-pollution\\_n\\_5857668.html](http://www.huffingtonpost.com/2014/09/22/climate-change-health-biking-carbon-pollution_n_5857668.html)

## PUBLICATIONS

### Most Recent Book:

Levy BS and **Patz JA** (Eds). *Climate Change and Public Health*. Oxford University Press, 2015.

<https://global.oup.com/academic/product/climate-change-and-public-health-9780190202453?cc=us&lang=en&>

### Peer Reviewed Journal Articles

Levy BS and **Patz JA**. Climate change, human rights and social justice. *Annals of Global Health*, 2015, in press. [http://www.annalsofglobalhealth.org/article/S2214-9996\(15\)01224-2/pdf](http://www.annalsofglobalhealth.org/article/S2214-9996(15)01224-2/pdf)

Goldberg T and **Patz JA**. The need for a global health ethic (Comment). *The Lancet*, July 16, 2015 [http://dx.doi.org/10.1016/S0140-6736\(15\)60757-7](http://dx.doi.org/10.1016/S0140-6736(15)60757-7).

Lee E, Burkhart J, Olson S, Billings AA, **Patz, JA**, Harner EJ. Relationships of climate and irrigation factors with malaria parasite incidences in two climatologically dissimilar regions in India. *International Journal of Climatology*, 2015, in press.

**Patz JA**, Grabow ML, Limaye VS. When it rains, it pours: future climate extremes and health. *Annals of Global Health*, Oct. 2014. <http://dx.doi.org/10.1016/j.aogh.2014.09.007>.

**Patz JA** and Hatch MJ. Public Health and Global Climate Disruption. *Public Health Reviews*, 35 (1), 2014. [http://www.publichealthreviews.eu/upload/pdf\\_files/13/00\\_Patz.pdf](http://www.publichealthreviews.eu/upload/pdf_files/13/00_Patz.pdf).

**Patz JA**, Frumkin H, Holloway T, Vimont DJ, Haines A. Climate change: challenges and opportunities for Global Health. *JAMA*. 2014;312(15): 1565-1580. <http://jama.jamanetwork.com/article.aspx?articleid=1909928>.

Hahn\* MB, Gangnon RE, Barcellos C, Asner GP, **Patz JA**. Influence of deforestation, roads, selective logging, and fire on malaria risk in the Amazon Basin of Brazil. *PLoS*, Jan. 2014, 9(1): e85725. doi:10.1371/journal.pone.0085725. <http://doi.org/10.1371/journal.pone.0085725>.

Hahn\* MB, Olson S Vittor A, Barcellos C, **Patz JA**, Pan, W. Conservation Efforts and Malaria in the Brazilian Amazon. *Am J Trop Med* 2013. <http://dx.doi.org/10.4269%2Fajtmh.13-0323>.

Hahn\* MB, Epstein JH, Gurley ES, Islam MS, Luby SP, Daszak P, **Patz JA**. Roosting behavior and habitat selection of *Pteropus giganteus* reveals potential links to Nipah virus epidemiology *J Applied Ecology*, 2014 doi: 10.1111/1365-2664.12212. <http://www.journalofappliedecology.org/details/journalArticle/5975421/>.

Hahn\* MB, Gurley ES, Epstein JH, Islam MS, **Patz JA**, Daszak P, Luby SP. The role of landscape composition and configuration on *Pteropus giganteus* roosting ecology and Nipah virus dynamics in Bangladesh. *Am J Trop Med* 90(2), 2014, pp. 247–255. <http://doi.org/10.4269/ajtmh.13-0256>.

Uejio\* C, Borchardt M, Yale SH, Malecki K, Anderson HA, **Patz JA**. Drinking Water Systems, Hydrology, and Childhood Gastrointestinal Illness in Central and Northern Wisconsin. *Am J Public Health*, 2014. <http://doi.org/10.2105/AJPH.2013.301659>.

**Patz JA** and Hahn MB. Climate change and health: A One Health Approach. In *Current Topics in Microbiology and Immunology*. 2012 (Nov): DOI: 10.1007/82\_2012\_274. [http://dx.doi.org/10.1007/82\\_2012\\_274](http://dx.doi.org/10.1007/82_2012_274).

Baumgartner\* J, Zhang Y, Schauer JJ, Ezzati M, **Patz JA**, & Bautista LE. Household Air Pollution and children's Blood Pressure. *Epidemiology*, 2012; 23(4), 641-642. <http://dx.doi.org/10.1016/j.ghheart.2012.06.014>.

Bennett A, Epstein LD, Gilman, RH, Cama V, Bern C, Cabrera L, Lescano AG **Patz JA**, Carcamo C, Sterling CR, Checkley W. Effects of 1997-98 El Niño episode on community rates of diarrhea. *Am J Public Health*, 2012; 102(7): e63-9. <http://doi.org/10.2105/AJPH.2011.300573>.

Uejio\* C, Peters T, **Patz JA**. Inland lake indicator bacteria: Long-term impervious surface and weather influences and a predictive Bayesian model. *Lake and Reservoir Management*. 2012; 28(3), 232-244 <http://doi.org/10.1080/07438141.2012.716500>.

Grabow\* ML, Spak SN, Holloway TA, Stone B, Mednick AC, **Patz JA**. Air quality and exercise-related health benefits from reduced car travel in the Midwestern United States. *Environmental Health Perspectives* 2011; 120:68-76. <http://dx.doi.org/10.1289/ehp.1103440>.

Baumgartner\* J, Schauer JJ, Ezzati M, Lu L, Cheng C, **Patz JA**, Bautista LE. Indoor air pollution and blood pressure in adult women living in rural China. *Environmental Health Perspectives* (2011); 119(10):1390-1395. <http://dx.doi.org/10.1289%2Fehp.1003371>.

Li B, Sain S, Mearns LO, Anderson HA, Kovats RS, Ebi KL, **Patz JA**. The impact of heat waves on morbidity in Milwaukee, Wisconsin. *Climatic Change*, 2011; DOI 10.1007/s10584-011-0120-y. <http://doi.org/10.1007/s10584-011-0120-y>.

L Ziska, K Knowlton, C Rogers, D Dalan, N Tierney, MA Elder, W Filley, J Shropshire, LB Ford, C Hedberg, P Fleetwood, KT Hovanky, T Kavanaugh, G Fulford, RF Vrtis, **JA Patz**, J Portnoy, F Coates, L Bielory, D Frenz. Recent warming by latitude associated with increased length of ragweed pollen season in central North America. *Proceedings of the National Academy of Science (PNAS)* 2011; doi/10.1073/pnas.1014107108. <http://doi.org/10.1073/pnas.1014107108>.

Olson\* SH, Gangnon R, Silveira G, **Patz JA**. Deforestation links to malaria in Mancio Lima County, Brazil. *Journal of Emerging Infectious Diseases* Vol. 16 (7) 2010:1108-1115.  
[http://wwwnc.cdc.gov/eid/article/16/7/09-1785\\_article](http://wwwnc.cdc.gov/eid/article/16/7/09-1785_article).

Olson\* SH, Gangnon R, Elguero E, Durieux L, Guegan JF, Foley JA, **Patz JA**. Links between climate, malaria, and wetlands in the Amazon Basin. *Journal of Emerging Infectious Diseases*, 2009; 15(4): 659-662. <http://dx.doi.org/10.3201%2F1504.080822>.

Vittor\* AY, Pan W, Gilman RH, Tielsch J, Glass GE, Shields T, Sanchez Lozano, W, Pinedo VV, **Patz JA** (Corresponding author). Linking deforestation to malaria in the Amazon: Characterization of the breeding habitat of the principal malaria vector, *Anopheles darlingi*. *Am J Trop Med Hyg* 2009; 81(1):5-12. <http://www.ajtmh.org/content/81/1/5.full>

Myers SS and **Patz JA**. Emerging threats to human health from global environmental change. *Annual Reviews in Environmental Resources*. 2009. 34:6.1-6.30.  
<http://doi.org/10.1146/annurev.enviro.033108.102650>.

Checkley\* W, Guzman-Cottrill J, Epstein L, Innocentini N, **Patz J**, Shulman S. Short-term weather variability in Chicago and hospitalizations for Kawasaki disease. *Epidemiology* 2009; 20: 194-201.  
<http://doi.org/10.1097/EDE.0b013e3181961a9b>.

**Patz JA**, Olson SH, Uejio CK, Gibbs HK. Disease emergence from climate and land use change. *Medical Clinics of North America*. 2008; 92: 1473-91. <http://dx.doi.org/10.1016/j.mcna.2008.07.007>.

**Patz, JA**, Vavrus S, Uejio C, McClellan S. Climate Change and Waterborne Disease Risk in the Great Lakes Region of the US. *Am J Preventive Medicine* 2008;35(5):451– 458.  
<http://static1.1.sgspcdn.com/static/f/551504/6467304/1270769637437/Patz+et+al.pdf?token=0l+RADrQQ7B3Px9LTuvsgHIZ4xY=>.

**Patz JA**, Campbell-Lendrum D, Gibbs H, Woodruff R. Health Impact Assessment of Global Climate Change: Expanding upon Comparative Risk Assessment approaches for Policy Making. *Annual Reviews in Public Health* 2008 (April): 27-39.  
[http://www.nps.edu/Academics/Institutes/Cebrowski/Docs/Rasmussen-docs/Health\\_Impact\\_Climate\\_Change\\_Patz.pdf](http://www.nps.edu/Academics/Institutes/Cebrowski/Docs/Rasmussen-docs/Health_Impact_Climate_Change_Patz.pdf).

**Patz JA**, Gibbs, HK, Foley JA, Rogers JV, Smith KR. Climate Change and Global Health: Quantifying a Growing Ethical Crisis. *EcoHealth* 2007 4(4): 397-405. <http://dx.doi.org/10.1007/s10393-007-0141-1>.

Bell ML, Goldberg R, Hogrefe C, Kinney PL, Knowlton K, Lynn B, Rosenthal J, Rosenzweig C, **Patz JA**. Climate change, ambient ozone, and health in 50 US cities. *Climatic Change* (2007). DOI 10.1007/s10584-006-9166-7. <http://doi.org/10.1007/s10584-006-9166-7>.

Foley, J.A., G.P. Asner, M.H. Costa, M.T. Coe, R. DeFries, H.K. Gibbs, E.A. Howard, S. Olson, **J. Patz**, N. Ramankutty and P. Snyder (2007). Amazonian revealed: forest degradation and loss of ecosystem goods and services in the Amazon Basin, *Frontiers in Ecology and Environment* (cover). 2007 5(1): 25-32. <http://water.columbia.edu/files/2011/11/DeFries2007Amazonia.pdf>.

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land use practices." *Proceedings Of The National Academy Of Sciences Of The United States Of America* PNAS 2006 **103**(15): 5635-5636. <http://doi.org/10.1073/pnas.0601493103>.

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**Patz, JA** and S. H. Olson. "Climate change, Oceans and Human Health" *Oceanography* 2006 **19** (2): 52-59. <http://dx.doi.org/10.5670/oceanog.2006.64>.

Vittor\*, AY, Gilman RH, Tielsch J, Glass GE, Shields TM, Sanchez-Lozano W, Pinedo VV, **Patz JA** (Corresponding Author). The effects of deforestation on the human-biting rate of *Anopheles darlingi*, the primary vector of falciparum malaria in the Peruvian Amazon. *Am J Trop Med Hyg* (2006);74(1): 3-11. <http://www.ajtmh.org/content/74/1/3.short>.

**Patz JA**, Campbell-Lendrum D, Holloway T, Foley, JA. Impact of regional climate change on human health. *Nature (cover)* (2005);438: 310-317. <http://dx.doi.org/10.1038/nature04188>.

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**Patz JA**, Daszak P, Tabor GM, Aguirre AA, Pearl M, Epstein J, Wolfe ND, Kilpatrick AM, Foutopoulos J, Molyneux D, Bradley DJ, and Members of the Working Group on Land Use Change and Disease Emergence. Unhealthy Landscapes: Policy Recommendations on Land Use Change and Infectious Disease Emergence. *Environ Health Perspect* 2004;101:1092-98. <http://dx.doi.org/10.1289%2Fehp.6877>.

Schwartz J, Samet JM, **Patz JA**. Hospital admissions for heart disease: the effects of temperature and humidity. *Epidemiology* 2004;15 (6):755-61. <http://doi.org/10.1097/01.ede.0000134875.15919.0f>

Haines A and **Patz JA** (Corresponding Author). Health effects of Climate Change. *JAMA* 2004;291(1):99-103. <http://doi.org/10.1001/jama.291.1.99>.

Corvalan CF and **Patz JA**. Global warming kills trees, and people. *Bulletin of the World Health Organization* 2004;82(7):481-481. [http://www.scielo.org/scielo.php?script=sci\\_arttext&pid=S0042-96862004000700003](http://www.scielo.org/scielo.php?script=sci_arttext&pid=S0042-96862004000700003).

Louis V, Russek-Cohen E, Choopun N, Rivera ING, Gangle B, Jiang SC, Rubin A, **Patz JA**, Huq A, Colwell RR. Predictability of *Vibrio cholerae* in Chesapeake Bay. *Applied and Environmental Microbiology* 2003;69(5):2773-85. <http://doi.org/10.1128/AEM.69.5.2773-2785.2003>.

**Patz JA**, Hulme M, Rosenzweig C, Mitchell TD, Goldberg RA, Githeko AK, Lele S, McMichael AJ, Le Sueur D. Regional warming and malaria resurgence. *Nature* 2002;420:627-8. <http://doi.org/10.1038/420627a>.

Glass, GE, Yates TL, Fine FB, Shields TM, Kendall JB, Hope AG, Parmenter CA, Peters CJ, Ksiazek TG, Li CS, **Patz JA**, Mills JN. 2002. Satellite imagery characteristics local animal reservoir populations of Sin Nombre virus in the southwestern United States. *Proc Nat Acad Sci* 2002;99:16817-16822. <http://doi.org/10.1073/pnas.252617999>.

Curriero FC, Heiner K, Zeger S, Samet J, **Patz JA**. Analysis of heat-mortality in 11 cities of the Eastern United States. *Am J Epidemiol* 2002; 155(1): 80-87. <http://doi.org/10.1093/aje/155.1.80>.

**Patz, JA** and R. S. Kovats (2002). Hotspots in climate change and human health. *British Medical Journal* 2002;325(7372):1094-8. <http://www.ncbi.nlm.nih.gov/pmc/articles/pmid/12424173/>.

Wolfe, AH and **Patz JA** (Corresponding Author). Reactive nitrogen and human health: acute and long-term implications. *Ambio* 2002;31:120-5. <http://dx.doi.org/10.1579/0044-7447-31.2.120>.

**Patz, JA** and M. Khaliq (2002). "MSJAMA: Global climate change and health: challenges for future practitioners." *JAMA* 287(17): 2283-4. <http://doi.org/10.1001/jama.287.17.2283-JMS0501-3-1>.

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Szilagyi J, Parlange MB, **Patz JA**, Graczyk TK. Sensitivity of watershed runoff under humid conditions to potential climate variations. *J Environ Engineering* 2002;128(7):635-642. <http://snr.unl.edu/szilagyi/jee.pdf>.

Curriero FC, **Patz JA** (Corresponding Author), Rose JB, Lele S. Analysis of the association between extreme precipitation and waterborne disease outbreaks in the United States, 1948-1994. *Am J Public Health* 2001 (Aug) 91:1194-99. [Article selected to have an accompanying editorial in the journal issue]. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1446745/>.

**Patz JA** and Reisen WK. Immunology, climate change and vector-borne diseases. *Immunology Today* 2001; 22(4):171-72.

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Gubler DJ, Reiter P, Ebi KL, Yap W, Nasci R, **Patz JA** (Corresponding Author). Climate variability and change in the United States: Potential impacts on vector- and rodent-borne diseases. *Environ Health Perspect* 2001;109(suppl 2):223-233.

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Seas C, Miranda J, Gil AI, Leon-Barua R, **Patz JA**, Huq A, Colwell RR, Sack RB. New Insights on the emergence of cholera in Latin America during 1991: the Peruvian experience. *Am J Trop Med Hyg* . 2000;62(4):513-7

**Patz JA**, Graczyk TK, Geller N, Vittor AY. Effects of environmental change on emerging parasitic diseases. *Int J Parasitol* 2000;30:1395-1405.

Martens P, McMichael AJ, **Patz JA**. Globalisation, environmental change and health. *Global Change and Human Health*; 2000. 1(1):4-8.

Speelman EC, Checkley W, Gilman RH, **Patz JA**, Calderon M, Manga S. Cholera incidence and El Niño-related higher ambient temperature. *JAMA* 2000; 283: 3072-4.

Rose JB, Daeschner S, Easterling DR, Curriero FC, Lele S, **Patz JA**. Climate and waterborne outbreaks. *J Am Water Works Assoc* 2000. 92:77-87.

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**Patz JA**, McGeehin MA, Bernard SM, Ebi KL, Epstein PR, Grambsch A, Gubler DJ, Reiter P, Romieu I, Rose JB, Samet JM, Trtanj J. The potential health impacts of climate variability and change for the United States: executive summary of the report of the health sector of the U.S. National Assessment. *Environ Health Perspect* 2000; 108: 367-376.

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Checkley\* W, Epstein LD, Gilman RH, Figueroa D, Cama RI, **Patz JA**, Black RE. Effects of the El Niño and ambient temperature on hospital admissions for diarrhoeal diseases in Peruvian children. *Lancet* 2000; 355: 442-450.

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**Patz JA**, Martens WJM, Focks DA, Jetten TH. Dengue fever epidemic potential as projected by general circulation models of global climate change. *Environ Health Perspect* 1998; 106 (3):147-153.



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**Patz JA** & Martens WJM. Climate impacts on vector-borne disease transmission: global and site-specific analyses. *J Epidemiology* 1996;6(4): S145-S148.

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#### Reports, Books and Monographs

Levy BS and **Patz JA** (Eds). *Climate Change and Public Health*. Oxford University Press, 2015.

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## ADDITIONAL INFORMATION

### ***Personal statement of research and training objectives***

The main objective of my research is to focus on population-wide, long-term global health risks associated with climate or ecological change, and the co-benefits from alternative energy and land use policies. I follow the framework of Health Impact Assessments (HIA) to consider tradeoffs and equity issues for each risk analysis. Examples of my focus areas include: 1) Global climate change and a) infectious diseases (both vector- and water-borne); b) heat morbidity and mortality; c) urban air pollution/climate/health modeling; 2) land use change (especially deforestation) and disease emergence; and 3) the built urban environment and transportation planning effects on health; 4) energy scenarios and air quality impacts on public health.

Because of the policy-relevance of these issues, I actively participate in national and international assessments related to global environmental problems. Examples include leadership roles for the United Nations Intergovernmental Panel on Climate Change, United Nations Millennium Ecosystem Assessment, and the US National Assessment on Climate Variability and Change. In 2006 I was elected President of the International Association for Ecology and Health, and served for two terms, stepping down in 2010.

The integrated nature of global environmental problems requires collaboration with ecologists, climatologists, economists, mathematical modelers and a diversity of other public health experts. I believe that only through substantive interdisciplinary efforts can key insights be discovered pertaining to linkages between human health and ecological degradation. Such cross-collaboration is also necessary to conduct appropriate risk assessments in this field.

Finally, I strive to integrate my research into teaching for students and communication to policy makers and the general public. Towards this goal, I led a multidisciplinary team in a successful application to the NSF IGERT program, and subsequent development of a new 12-credit Certificate in Humans and the Global Environment (CHANGE). I have also established a general website for middle school educators entitled, “Environmental Change and Our Health” ([www.ecohealth101.org](http://www.ecohealth101.org)).