

# ALEXANDER I. ZVOLEFF

Postdoctoral Associate

Tropical Ecology Assessment and Monitoring (TEAM) Network

Conservation International

2011 Crystal Drive, Suite 500, Arlington, VA 22202

Email: [azvoleff@conservation.org](mailto:azvoleff@conservation.org) Tel: (703) 341-2749 Fax: (703) 979-0953

<http://www.azvoleff.com> <http://www.teamnetwork.org> <http://www.conservation.org>

## EDUCATION

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### San Diego State University / University of California, Santa Barbara

Ph.D. Department of Geography, September 2013. Dissertation: *Understanding the Dynamics of Changing Land-use and Land-cover, Population, and Climate in the Chitwan Valley, Nepal*

### Columbia University, New York, New York

M.A. Climate and Society, October 2008

### University of California, San Diego

B.S. Earth Sciences - Geochemistry, minor in Environmental Systems, December 2006

## RESEARCH INTERESTS

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- Land use and land cover change
- Spatial statistics and modeling
- Using big data to study human-environment systems
- Landscape ecology and conservation

## POSITIONS

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07/2013 – Present	<b>Postdoctoral Associate</b> , Tropical Ecology Assessment and Monitoring (TEAM) Network, Conservation International, Arlington, VA
08/2008 – 06/2013	<b>Teaching Associate</b> , Department of Geography, San Diego State University, San Diego, CA
08/2007 – 08/2008	<b>Research Assistant</b> , Department of Mechanical Engineering, Columbia University, New York, NY
06/2006 – 12/2006	<b>Research Assistant</b> , Cecil H. and Ida M. Green Institute of Geophysics and Planetary Physics, Scripps Institution of Oceanography, University of California, San Diego, CA

## REFEREED PUBLICATIONS

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**Zvoleff, A.,** S. M. Wandersee, L. An, and D. López-Carr. 2014. Land use and land cover change. *Oxford Bibliographies*.

- An, L., **A. Zvoleff**, J. Liu, and W. Axinn. 2014. Agent based modeling in coupled human and natural systems (CHANS): lessons from a comparative analysis. *Annals of the Association of American Geographers* 104(4):723-745.
- Zvoleff, A.**, An, L., 2014. The effect of reciprocal connections between demographic decision making and land use on decadal dynamics of population and land-use change. *Ecology and Society* 19:2.
- Zvoleff, A.**, and L. An. 2014. Analyzing human-landscape interactions: tools that integrate. *Environmental Management* 53:94–111.
- López-Carr, D., M. Erdman, and **A. Zvoleff**. 2010. *Mapping Population onto Priority Conservation Areas*. World Wildlife Fund, PHE Series, 73 pages.
- Zvoleff, A.**, S. Kocaman, W. T. Huh, and V. Modi. 2009. The impact of geography on energy infrastructure costs. *Energy Policy* 37 (10):4066-4078.

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## BOOK CHAPTERS

- Zvoleff, A.**, L. An, J. Stoler, and J. R. Weeks. 2013. What if neighbors' neighborhoods differ? The influence of neighborhood definition on health outcomes in Accra. In *Spatial Inequalities*, eds. J. R. Weeks, A. Hill, and J. Stoler. Springer.
- Weeks, J. R., J. Stoler, A. G. Hill, and **A. Zvoleff**. 2013. Fertility in context: The influence of neighborhoods on family-building and reproductive health. In *Spatial Inequalities: Health, Poverty and Place in Accra, Ghana*, eds. J. R. Weeks, A. G. Hill, and J. Stoler. Springer.

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## PROCEEDINGS PAPERS

- Bremner, J., López-Carr, D., **A. Zvoleff**, and N. Pricope. 2013. Using new methods and data to assess and address population, fertility, and environment links in the Lake Victoria Basin. Proceedings of the 2013 International Union for the Scientific Study of Population (IUSSP). Busan, Korea, August, 2013.
- Carr, D. L., M. Erdman, and **A. Zvoleff**. 2010. How are population patterns different in ecological priority areas? Mapping demography onto conservation areas. Proceedings of the European Population Conference 2010, Vienna, Austria, Sep 2, 2010.

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## INVITED PRESENTATIONS

- Zvoleff, A.**, and L. An. 2012. Exploring feedbacks between demography, land-use, and land-cover in a CHANS in the Chitwan Valley, Nepal. Presented at Special NASA-MSU Symposium on "Disentangling Diverse Drivers and Complex Dynamics of Coupled Human and Natural Systems (CHANS)" at the 2012 US-IALE Symposium, Newport, Rhode Island, Apr 9, 2012.
- López-Carr, D., and **A. Zvoleff**. 2012. Hotspots: Population Growth in Areas of High Biodiversity. Presented at The Wilson Center for International Scholars: Environmental Change and Security Program, Washington, DC, Feb 29, 2012 (presented by D. López-Carr).

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**OTHER PUBLICATIONS**

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**Zvoleff, A.** 2010. Open geodata standards. In *Encyclopedia of Geography*, ed. B. Warf. Thousand Oaks, CA: SAGE Publications Inc.

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**PROFESSIONAL PRESENTATIONS**

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**Zvoleff, A.** and D. López-Carr. 2013. Population dynamics in the world's protected areas. Presented at International Geographical Union (IGU) 2013 Kyoto Regional Congress. Kyoto, Japan, Aug 4-9, 2013 (presented by D. López-Carr).

Pricope, N. G., M. Jankowska, López-Carr, D., and **A. Zvoleff**. 2013. Integrating multi-temporal climate and health data to model children's health outcomes in the Lake Victoria Region of Africa. Presented at International Geographical Union (IGU) 2013 Kyoto Regional Congress. Kyoto, Japan, Aug 4-9, 2013 (presented by N. G. Pricope).

**Zvoleff, A.**, and L. An. 2013. Modeling feedbacks between human decision-making, community context, and land-use change. Presented at American Association of Geographers, 2013 Annual Meeting, Los Angeles, CA, Apr 11, 2013.

Yang, S., **A. Zvoleff**, L. An, and M. Liu. 2013. Socioeconomic drivers and environmental impacts of local urbanization process in rural areas: a case study of Wolong Nature Reserve, China. Presented at American Association of Geographers, 2013 Annual Meeting, Los Angeles, CA, Apr 12, 2013 (presented by A. Zvoleff).

An, L., X. Chen, S. M. Wandersee, S. Yang, and **A. Zvoleff**. "Payments for Ecosystem Services: a Coupled Natural and Human Systems Approach." presented at the American Association of Geographers, 2013 Annual Meeting, Los Angeles, CA, April 10, 2013 (presented by L. An).

Weeks, J. R., J. Stoler, A. G. Hill, and **A. Zvoleff**, "Fertility in Context: Exploring Egocentric Neighborhoods in Accra, Ghana," Presented at the Annual Meeting of the Association of American Geographers, New York, NY, February 2012; and at the Annual Meeting of the Population Association of America, San Francisco, May 2012 (presented by J. R. Weeks).

**Zvoleff, A.**, L. An, J. Stoler, and J. R. Weeks. 2012. What if neighbors' neighborhoods differ? The influence of neighborhood definition on health outcomes in Accra. Presented at American Association of Geographers, 2012 Annual Meeting, New York, NY, Feb 25, 2012.

**Zvoleff, A.**, and D. López-Carr. 2012. Linking Conservation and Development: A Global-scale Analysis of Demographics in High-value Conservation Areas. Presented at American Association of Geographers, 2012 Annual Meeting, New York, NY, Feb 24, 2012. Also presented at the SDSU 2012 Student Research Symposium, San Diego, CA, Mar 9, 2012.

**Zvoleff, A.**, and D. López-Carr. 2012. Prioritizing Health Investments to Further Conservation and Development Goals. Poster presented at UC Global Health Day 2012, Berkeley, CA, Feb 4, 2012.

**Zvoleff, A.**, and L. An. 2011. Remote Sensing of Aboveground Woody Biomass Resources in the Western Chitwan Valley, Nepal. Presented at 2011 US-IALE Symposium, Portland, Oregon, Apr 5, 2011.

**Zvoleff, A.**, and L. An. 2011. Modeling Human-Environment Interactions and their Ecological Implications in the Chitwan Valley, Nepal. Presented at 2011 AAAS Conference,

Washington DC, Feb 18, 2011. Also presented at SDSU 2011 Student Research Symposium, San Diego, CA, Mar 5, 2011.

**Zvoleff, A.,** and L. An. 2010. Connecting Micro-scale Fertility Decision-making with Macro-scale LULC in the Chitwan Valley, Nepal Using an Agent-based Model. Presented at Global Land Project Open Science Meeting 2010, Arizona, USA, Oct 18, 2010.

**Zvoleff, A.,** and D. López-Carr. 2010. Population Growth, Agricultural Labor, and Land Use/Cover Change in the World's Priority Conservation Areas. Presented at IGU/UGI Regional Conference, Tel Aviv, Israel, Jul 14, 2010 (presented by D. López-Carr).

**Zvoleff, A.,** B. K. Shrestha, and L. An. 2010. Biomass Resources and Population Change in the Chitwan Valley, Nepal. Presented at 2010 US-IALE Twenty-fifth Anniversary Symposium, Athens, Georgia, Apr 8, 2010.

**Zvoleff, A.** 2009. Impacts of climate change in the western Chitwan Valley, Nepal. Presented at 2009 US-IALE Symposium, Snowbird, Utah, 2009.

**Zvoleff, A.,** and L. An. 2009. Exploring land use change in southern Nepal using an agent-based model. Presented at American Association of Geographers, 2009 Annual Meeting, Session 2151, Las Vegas, NV, 2009. Also presented at SDSU 2009 Student Research Symposium, San Diego, CA, 2009.

**Zvoleff, A.,** and B. T. Werner. 2006. Agent-based model for the coupled human-climate system. Accepted for presentation at American Geophysical Union, Fall Meeting 2006, abstract# GC51A-0430, San Francisco, CA, 2006.

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## TEACHING EXPERIENCE

**Landscape-Population Analysis Workshop,** Instructor, May 20, 2014, 23 participant workshop at 2014 US-IALE Annual Symposium in Anchorage, Alaska.

**Introduction to GIS and GPS,** Instructor, spring 2013, 5 student short workshop offered in San Diego to visiting researchers from the Fanjingshan Nature Reserve, China.

**Quantitative Methods in Geographic Research,** (SDSU), Teaching associate, spring 2013

**Remote Sensing in R and Python** (SDSU), Instructor, fall 2012, 6 student short workshop

**Introduction to R** (SDSU), Instructor, spring 2012, 12 student short workshop

**Principles of Physical Geography** (SDSU), Instructor, spring 2011, 51 student lecture course

**Spatial Data Analysis** (SDSU), Co-instructor, spring 2011, 23 student lecture course

**Introduction to GIS and GPS,** Instructor, fall 2011, 25 student intensive 3 day course offered in the Chitwan Valley, Nepal.

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## AWARDS AND HONORS

AAG NSF International Geographical Union Conference Travel Grant (Spring 2013, \$1250, declined)

Cotton Bridges Award for GIS Emphasizing Techniques (Spring 2012, \$715)

UCSB Doctoral Student Travel Grant (Spring 2012, \$342.50)

President's Award for presentation at 2012 SDSU Student Research Symposium (Spring 2012, \$500)

Inamori Fellowship (Spring 2012, \$5000)

UC Global Health Day Travel Grant (Spring 2012, \$375.00)

William and Vivian Finch Award in Remote Sensing (Spring 2011, \$4200)

Dean's Award for presentation at 2011 SDSU Student Research Symposium, with special recognition from SDSU Scholars without Borders (Spring 2011, \$350)

SDSU Graduate Student Travel Fund award to support Nepal fieldwork (Fall 2009, \$750)

NASA-MSU Professional Enhancement Award (Spring 2009, \$700)

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### **SERVICE TO COMMUNITY**

Reviewed for: Landscape Ecology; Environmental Management; Transactions in GIS; Journal of Nature Conservation; Journal of International Development and Cooperation; Agriculture, Ecosystems and Environment; International Journal of Environmental Research and Public Health

Student Rep. to Human Dimensions of Global Change Specialty Group of the AAG (2012-2014)

Research Rep. to San Diego State University Geography Graduate Student Group (2011-2012)

Founder of San Diego State University Geography Graduate Student Group (2011)

SDSU Hazard Mapping Corps (volunteer team for emergency hazard mapping – 2010-2013)

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### **PROFESSIONAL MEMBERSHIPS**

2013 – Present American Society for Photogrammetry and Remote Sensing

2011 – Present American Association for the Advancement of Science

2008 – Present Association of American Geographers

2008 – Present US Regional Association of the Intl. Association for Landscape Ecology

2006 – Present American Geophysical Union

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### **OTHER ACTIVITIES**

I also enjoy running, biking, photography, cooking, and travel.