
EMPLOYMENT

Anderson Geographics LLC

November 2013 - present

Customize data processing and presentation for agricultural information systems, including cloud-based and mobile reporting. Optimize workflow automation and geographic data display for use in decision-making tools. GIS/remote sensing research and spatial analysis to support precision agriculture. Mobile app and web map development. Field data verification, custom scripts, and data quality control.

University of Alaska Anchorage

Adjunct Research Assistant Professor, Department of Biological Sciences, July 2013 – July 2015

Alaska EPSCoR: Alaska Adapting to Changing Environments

Southcentral Test Case: Investigating landscape values and adaptive capacity on the Kenai Peninsula

EDUCATION

San Diego State University / University of California, Santa Barbara

Ph.D. Geography, September 2008 – September 2013

Committee: Li An, (SDSU, co-chair), David López-Carr (UCSB, co-chair)
Kathleen Farley (SDSU), Keith Clarke (UCSB)

Dissertation: *LULC Change in Human-Nature Systems: Understanding complex interactions among national policy, local management, livelihoods, and conservation*

University for Peace, Costa Rica

M.A. Environmental Security and Peace, October 2008

Tuition Merit Scholarship

University of Wisconsin, Eau Claire

B.A. Geography, B.A. American Indian Studies, minor in German, May 2006

Degree emphasis on geographic techniques

Graduated Summa cum Laude, Dean's List each semester

SERVICE TO COMMUNITY

GIS Pest Alert Support: *Maintain and administer GIS of regional pest alert to support Hermiston Agricultural Research & Extension Center.*

Umatilla Basin Watershed Council: *Treasurer.*

Conference Organizing Committee: *Local host for US – International Association of Landscape Ecology 2014 Annual Symposium in Anchorage, AK.*

Journal Reviewer: *Journal of Environmental Entomology, Plant Disease, Environmental Management, Journal of Applied Geography, Environmental Science & Technology, International Journal of Primatology, Journal of Natural History, International Journal of Environmental Research and Public Health*

Grant Proposal Reviewer: *University of California Competitive Grants Program*

SDSU Dept. of Geography Lead TA 2012-2013

SDSU Dept. of Geography Graduate Student Group, Co-founder 2011-2013

SDSU Department of Geography PhD Representative 2011-2012

Supporting Women in Geography SDSU (President 2012-13, Treasurer) 2010-2013

Volunteer Hazard Mapping Corps SDSU 2008-2013

PROFESSIONAL PRESENTATIONS

- Oppedisano, T., Shrestha, G., **Anderson, S.**, Thompson, I., Rondon, S. (2022, Feb.). *IPM of potatoes: predicting phenology of four Hemipteran pests in the Lower Columbia Basin*. 10th International IPM Symposium. Denver, CO.
- Oppedisano, T., Shrestha, G., **Anderson, S.**, Thompson, I., Rondon, S. (2022, Jan.). *Can we predict pest incidence in potatoes?* 81st Annual Pacific Northwest Insect Management Conference. Virtual Conference.
- Anderson, S.** & Anderson, W. (2019, Dec.). *Use of UAVs & multispectral mapping in vegetable crop production*. 46th Annual Hermiston Farm Fair. Hermiston, OR.
- Anderson, W. & **Anderson, S.** (2019, Dec.). *UAVs & multispectral imaging for pest management*. 46th Annual Hermiston Farm Fair. Hermiston, OR.
- Anderson, W. & **Anderson, S.** (2018, Dec.). *Successful sprayer applications from imagery-based prescriptions*. 45th Annual Hermiston Farm Fair. Hermiston, OR.
- Anderson, S.** & Anderson, W. (2018, Apr.). *Orchestrating Harmony with ArcGIS (While Sometimes Falling Flat)*. SE Washington NE Oregon GIS User Group Meeting. Mission, OR.
- Anderson, S.** (2017, Dec.). *Pest monitoring with trap data & imagery workflows*. 44th Annual Hermiston Farm Fair. Hermiston, OR.
- Anderson, S.** (2016, Apr.). *Management zone creation for agriculture: A pilot project*. SE Washington NE Oregon GIS User Group Meeting. Mission, OR.
- Wandersee, S.** (2015, Feb.). *Landscape values mapping from start to finish: An applied perspective from an Alaska EPSCoR test case on the Kenai Peninsula*. Brown Bag Presentation. University of Alaska Anchorage.
- Wandersee, S.** & Kliskey, A. (2014, May). *Landscape values and temporal dynamics: Culture and landscape on the Kenai Peninsula, AK*. Paper session, 2014 US-IALE Annual Meeting, Anchorage, AK.
- Wandersee, S.**, Kliskey, A., & Rinella, D. (2013, Sept.). *Alaska adapting to changing environments: Approaching social-ecological dynamics on the Kenai Peninsula*. Paper session, 2013 American Association for the Advancement of Science Arctic Science Conference, Kodiak, AK.
- Wandersee, S.**, An, L., & Yang, Y. (2013, Apr.). *National plans and local implementation of China's sloped land conversion program: An analysis of SLCP implementation in a National Reserve*. Organized paper session, 2013 Annual Meeting of the Association of American Geographers, Los Angeles, CA.
- Wandersee, S.**, An, L., & Yang, Y. (2012, Feb.). *From paper to practice: Land cover dynamics in Guizhou golden monkey habitat, China*. Paper session, 2012 Annual Meeting of the Association of American Geographers, New York, NY.
- An, L., Ming, T., **Wandersee, S.**, Gupta, D., Spitzberg, B. & Gawron, J. M. (2012, Feb.). *How do ideas spread over the internet? Evidence from space-time analysis*. Paper session, 2012 Annual Meeting of the Association of American Geographers, New York, NY.
- An, L., Ming, T., **Wandersee, S.**, Gupta, D., Spitzberg, B. & Gawron, J. M. (2012, Feb.). *Is climate change a myth? Evidence from cyberspace and realspace*. Paper session, symposium "Web Surveillance: Fighting Terrorism and Infectious Diseases", 2012 Annual Meeting of the American Association for the Advancement of Science, Vancouver, Canada.
- Tsou, M., An, L., & **Wandersee, S.** (2011, Apr.) *Visualizing and analyzing spatiotemporal dynamics of global diffusion of ideas in cyberspace*. Paper session, 2011 Annual Meeting of the Association of American Geographers, Seattle, Washington.
- An, L., Wang, N., Brown, D., & **Wandersee, S.** (2011, Apr.). *Land survival analysis: A new paradigm for characterizing and understanding land changes*. Paper session, 2011 US-IALE Annual Meeting, Portland, OR.

- Wandersee, S., An, L., & Yang, Y.** (2011, Apr.). *'Pest' species and conservation in mixed use reserves: Human-environment dynamics in Fanjingshan National Nature Reserve, China.* Paper session, 2011 US-IALE Annual Meeting, Portland, OR.
- Wandersee, S., An, L., & López-Carr, D.** (2011, Feb.). *Perception and Decisions in Modeling Complex Human-Environment Dynamics in Protected Areas: A Case Study from Guizhou, China.* Paper session, 2011 Association for the Advancement of Science Annual Meeting, Washington, D.C.
- Wandersee, S., An, L., & Yang, Y.** (2010, Apr.). *Forest vegetation dynamics in Guizhou golden monkey habitat, China.* Paper session at the 2010 US-IALE 25th Anniversary Symposium, Athens, GA.
- Wandersee, S., An, L., Yang, Y., & Tan, C.** (2009, Oct.). *Chinese National Policy Effects on Local Level Conservation and Communities: Preliminary results from Fanjingshan National Nature Reserve.* Paper session presented at the 2009 Annual Meeting of the Association of Pacific Coast Geographers, San Diego, CA.
- Wandersee, S., & An, L.** (2009, Mar.). *Documenting Impacts of Illegal Mining on Guizhou Golden Monkey Habitat in Southwestern China Using Remote Sensing.* Poster session presented at the 2009 Annual Meeting of the Association of American Geographers, Las Vegas, NV.

TEACHING EXPERIENCE

Landscape Ecology (SDSU), Instructor (Fall 2010), Co-instructor (Spring 2011, 2012), 5 – 15 student seminar course; Theories, techniques, frontiers, and applications of landscape ecology in natural resources/environment management and conservation; Lectures, labs, exams, class projects/presentations.

Geographic Information Science (SDSU), Co-instructor (Fall 2011), 25 student lecture course; Fundamental concepts of geographic information science (GIScience), including geographic information systems (GIS), global positioning systems (GPS), cartography, remote sensing, and spatial analysis. Also includes geospatial application tools in addressing human and environmental problems, basic principles of mathematics and quantitative reasoning, geospatial data organization, basic remote sensing and spatial pattern analysis and interpretation; Lectures, homework assignments, exams, class projects, presentations.

FACILITATED WORKSHOPS

Landscape-Population Analysis: Linking social surveys to environmental data for inquiry, Co-facilitator & co-organizer, 5/20/2014, US – International Association for Landscape Ecology, Anchorage, AK. 4 hr workshop on connecting human and environmental data for interdisciplinary research.

Teaching College Geography, Facilitator & co-organizer, 08/2012, 08/2011, Dept. of Geography, San Diego State University, 10 student 2-day workshop.

Mapping Cyberspace Specialist Meeting, Assistant, 08/2012, 06/2011, Center for Earth Systems Analysis Research, San Diego State University, 15-participant specialist meeting.

Food Security, Facilitator & co-organizer, 10/2011, Supporting Women in Geography, San Diego State University Student Group, 1 day course for San Diego County Girl Scouts.

Website Design, Organizer and co-facilitator, 09/2011, 04/2011, Dept. of Geography, San Diego State University, 12 student short workshop.

Multilevel Modeling Advanced Spatial Analysis, Consultant, 07/10-15/2011, Center for Spatially Integrated Social Science, University of California – Santa Barbara, week-long intensive course for graduate students and early career faculty.

TRAINING

Integrated Pest Management Workshop, HAREC	06/8-10/2015
Milsoft Utility Software	04/2015
FEMA NIMS IC-100 and IC-200	10/2009
University for Peace Model United Nations, Costa Rica	1/31-2/2/2008
Fundraising for Development Projects, University for Peace, Costa Rica	11/2007

AWARDS AND HONORS

Alaska EPSCoR Travel Award – Arctic AAAS Conference	Sept. 2013, \$1500
Citizenship Award, SDSU Dept. of Geography	Spring 2012, \$500
ESRI Award for Human Geography Applications of GIS	Spring 2011, \$500
McFarland Scholarship, SDSU Dept. of Geography	2011-12, \$4,200
Women's Environmental Council Scholarship	Spring 2011, \$1,000
NASA-MSU Professional Enhancement Award	Spring 2010, \$700
University for Peace Merit Scholarship	2007-2008, \$8,000
National Merit Scholarship	2002-2006, \$12,000

FUNDING

Margot Marsh Biodiversity Foundation Grant Role: PI 2009-2011 Amount: \$12,000
 Project Title: Documenting Impacts of Illegal Mining on the Guizhou Golden Monkey, *Rhinopithecus brelichi*, in Fanjingshan National Nature Reserve, China.

PROFESSIONAL MEMBERSHIPS

Association of American Geographers	2011-2019
American Society for Photogrammetry and Remote Sensing	2011-2019
International Association for Landscape Ecology	2009-2015
National Society of Collegiate Scholars	2003-Present
American Geophysical Union	2012-2013
American Association for the Advancement of Science	2011-2014

INVITED LECTURES

- Wandersee, S.** (2013, Nov.). *GIS Applications in Reserves*. Guest Lecture. Conservation Biology. University of Alaska Anchorage, Anchorage, AK.
- Wandersee, S.** (2013, Oct.) *LULC Change in Human-Nature Systems: Understanding complex interactions among national policy, local management, livelihoods, and conservation*. Invited public colloquium. San Diego State University, San Diego, CA.
- Wandersee, S.** (2013/2012, Apr.). *Road Ecology*. Guest Lecture. Landscape Ecology. San Diego State University, San Diego, CA.
- Wandersee, S.** (2012, Dec.) *Payments for Ecosystem Services in Protected Golden Monkey Habitat: Human-Environment Dynamics in Fanjingshan, China*. Invited public lecture. Grinnell College, Grinnell, IA.
- Wandersee, S.** (2011, Nov.). *Air Pollution*. Guest Lecture. Environmental and Natural Resource Conservation. San Diego State University, San Diego, CA.
- An, L. & **Wandersee, S.** (2010, Oct.). *Landscape Ecology Applications in Fanjingshan National Nature Reserve*. Guest Lecture. Conservation Ecology. San Diego State University, San Diego, CA.
- Wandersee, S.** (2010, Oct.). *China: Physical & Environmental Geography*. Guest Lecture. World Regional Geography. San Diego State University, San Diego, CA.

- An, L. & **Wandersee, S.** (2010, June). San Diego Zoo Institute for Conservation Research (ICR) Symposium Presentation. San Diego, CA.
- Wandersee, S.** (2009, Nov.). *Forest Change-Local Livelihood Interaction and Impacts on Golden Monkey Habitat*. Presented at San Diego State University Colloquium "People, Golden Monkeys, and the Environment: Sustainability into the Future".

PUBLICATIONS

Peer-Reviewed Publications

- Oppedisano, T., Shrestha, G., **Anderson, S.**, Thompson, I., Rondon, S. (2022). Predicting Phenology of Four Major Hemipteran Pests to Enhance Integrated Pest Management Programs in Potatoes in the Lower Columbia Basin. *Journal of Economic Entomology*. toab215. doi:10.1093/jee/toab215.
- Kliskey, A., Alessa, L., **Wandersee, S.**, Williams, P., Trammell, J., Powell, J., Grunblatt, J. & Wipfli, M. (2016). A Science of Integration: Frameworks, Processes, and Products in a Place-Based, Integrative Study. *Sustainability Science*. 1-11. doi:10.1007/s11625-016-0391-3.
- Kliskey, A., Alessa, L., **Wandersee, S.**, Williams, P., Trammell, J., Powell, J., Grunblatt, J. & Wipfli, M. (2016). A Science of Integration: Frameworks, Processes, and Products in a Place-Based, Integrative Study. *Sustainability Science*. 1-11. doi:10.1007/s11625-016-0391-3.
- Zvoleff, A., **Wandersee, S.**, An, L. & López-Carr, D. (Aug. 2014). Land Use and Cover Change (LUCC). *Oxford Bibliographies*. Oxford University Press.
- Aitken, S.C., An, L., **Wandersee, S.**, & Yang, Y. (2014). Renegotiating Local Values: The Case of Fanjingshan Reserve, China. In C. Brun, M. Jones, & P. Blaikie (Eds.), *Alternative Development: Unravelling Marginalization, Voicing Change* (pp. 171-190). Ashgate Publishing.
- Tsou, M., Kim, I.-H., **Wandersee, S.**, Lusher, D., An, L., Spitzberg, B., Gupta, D., Gawron, J., Smith, J., Yang, J. A., and Han, S. (2013). Mapping Ideas from Cyberspace to Realspace: Visualizing the Spatial Context of Keywords from Web Page Search Results. *International Journal of Digital Earth*. Spec. Issue of *Analytical Geospatial Digital Earth*. 1-20.
- Wandersee, S.**, An, L., López-Carr, D., & Yang, Y. (2012). Perception and Decisions in Modeling Coupled Human and Natural Systems: A Case Study from Fanjingshan National Nature Reserve, China. *Ecological Modelling*. Spec. Issue of *Modeling Human Decisions* 229: 37-49.

Encyclopedia Entries

- Wandersee, S.** (2010). Metadata. In Warf, B. & P. Jankowski (Eds.), *Encyclopedia of Geography*, Singapore: Sage Publications, Inc.
- Wandersee, S.** (2013). Xi River. In R. W. Howarth (Lead Ed.), *Biomes and Ecosystems: An Encyclopedia*, Salem Press.

Book Reviews

- Wandersee, S.** (2013). Review of the book *After Custer: Loss and Transformation in Sioux Country*, by P. Hedren. *Journal of Historical Geography* 40, 227-28.
- Wandersee, S.** (2012). Review of the book *Will the Real Alberta Please Stand up?* by G. Takach. *Journal of Cultural Geography* 29(1).
- Wandersee, S.** (2011). Review of the book *Pilgrims on the Ice: Robert Falcon Scott's First Antarctic Expedition, Bison Books Edition*, by T.H. Baughman. *Journal of Historical Geography* 39.