

Richard “Drew” Marcantonio

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ACADEMIC POSITIONS:

- 2024 – present **Assistant Professor of Environment, Peace, and Global Affairs**, Kroc Institute for International Peace Studies, Keough School of Global Affairs, University of Notre Dame.
- Concurrent Appointment in Business, Ethics, and Society Program, Mendoza College of Business
 - Faculty Fellow at Environmental Change Initiative, Kellogg Institute for International Studies, the Lucy Institute for Data and Society, and the Deloitte Center for Ethical Leadership
- 2023 – present **Graduate Faculty**, Department of Geography and Environmental Studies, Texas State University.
- 2022 – 2024 **Assistant Teaching Professor**, Department of Management and Organization, Mendoza College of Business, University of Notre Dame.
- 2021 – present **Visiting Assistant Professor**, Program on International and Public Law, Ethics, and Economics for Sustainable Development, School of Law, Università degli Studi di Milano (University of Milan)

EDUCATION:

- 2021 **Joint-Ph.D. *Peace Studies and Anthropology***, Kroc Institute for International Peace Studies, University of Notre Dame. Graduate Certificate in Environment and Society.
- 2018 **M.A. *Anthropology***, University of Notre Dame.
- 2016 **M.P.A. *Environmental Management and Policy***, Indiana University School of Public and Environmental Affairs.
- 2009 **B.A. *Geography and the Environment***, University of Texas at Austin.

BOOKS/MONOGRAPHS:

Published

Marcantonio, R., Fuentes, A., and Lederach, J.P. eds. (2024) *Exploring Environmental Violence: Perspectives, experience, expression, and engagement*. Cambridge University Press.

Marcantonio, R. (2022) *Environmental Violence: In the Earth System and the Human Niche*. Cambridge University Press. (awarded an international recognition from the International Science Prize for Peace and Ecology in the Anthropocene sponsored by the Hans Gunter Brauch Foundation)

Lame, M. and **Marcantonio R.** (2022) *Environmental Management: Concepts and Practical Skills*. Cambridge University Press.

In press and in production

Marcantonio, R. (Contracted; expected 2025) *The Environment in Conflict: Implications and pathways forward.* Cambridge University Press.

PEER-REVIEWED ARTICLES:

*indicate student co-authors

23. Marcantonio, R. Under second review (In press). Environmental Violence and Enterprise: the outsized role of business for environmental peacebuilding. *Business Horizons*.

22. *Underwood, A., Marcantonio, R., and Crippa, P. (2024). Transboundary air pollution modeling, policy, and management. *Environmental Management*.

21. Marcantonio, R. (2024). The Glaring Gaps: Environmental Violence and Peace Research and Practice. *Peacebuilding*. <https://doi.org/10.1080/21647259.2024.2355765>

20. Marcantonio, R., & Fuentes, A. 2023. Environmental violence: A tool for planetary health research. *The Lancet Planetary Health*, 7(10), e859–e867.

19. Ross, A., Marcantonio, R., Mack, E., Bunting, E., Zimmer, A., and Miller-Graff, L. 2023. A Mediation Analysis of the Linkages Between Climate Variability, Water Insecurity, and Interpersonal Violence. *Climate and Development*.

18. Bolten, C. and Marcantonio, R. 2023. Usurious strangers and “a better tomorrow”: Agricultural loans, education, and the “poverty trap” in rural Sierra Leone. *Economic Anthropology*. 10(1), 77-89.

17. Marcantonio, R. 2022. Toxic Diplomacy Through Environmental Management: A Necessary Next Step for Environmental Peacebuilding. *World Development Perspectives*, 28, Article 100471

16. Mack, E. A., Marcantonio, R., Bunting, E., Ross, A., Zimmer, A., Zulu, L. C., Fernández, E. L. G., Herndon, J., & Henebry, G. M. 2022. A Systematic Literature Review of Quantitative Studies Assessing the Relationship between Water and Conflict on the African Continent. *Sustainability*, 14(22), Article 22

15. Hook, K. and Marcantonio, R. 2022. Environmental Dimensions of Conflict and Paralyzed Responses: The Ongoing Case of Ukraine and Future Implications for Urban Warfare. *Small Wars and Insurgencies*.

14. Marcantonio, R., Fields, S., Javeline, D., and Fuentes, A. 2021. Global distribution and coincidence of pollution, climate impacts, and health risk in the Anthropocene. *PLOS ONE*. Vol. 16 (7) e0254060

13. Pearson, A. L., Mack, E. A., Ross, A., Marcantonio, R., *Zimmer, A., Bunting, E., Smith, A. C., Miller, J. D., and Evans, T. 2021. Interpersonal conflict over water is associated with household demographics, domains of water insecurity and broader conflict: Evidence from 9 sites across 8 Sub-Saharan African countries. *Water*. Vol. 13 (9) p. 1150

- 12. Bolten, C. and Marcantonio, R. A.** 2021. The Paradox of Planning: Agriculture, Schooling, and the Unresolved Uncertainty of Ideal Family Size in Rural Sierra Leone. *African Studies Review*. Vol. 64 (2) p. 390-411
- 11. Bunting, E., Marcantonio, R., Herndon, J., Mack, E., Ross, A., and Zimmer, A.** 2021. Conflict and its Relationship to Climate Variability in Sub-Saharan Africa. *Science of the Total Environment*. Vol. 775 p. 145646
- 10. Marcantonio, R.A., *Field, S., Bai Sesay, P. and Lamberti, G.** 2021. Identifying Human Health Risk from Precious Metal Mining in Sierra Leone. *Regional Environmental Change*. Vol. 21 (2) p. 1-12
- 9. Marcantonio, R. A., *Field, S. and Regan, P. M.** 2020. Toxicity Travels in a Changing Climate. *Environmental Science and Policy*. Vol. 114 p. 560-569. (In Special Issue: The Socio-Political Dimensions of Climate Mitigation and Adaptation (In)Action)
- 8. Marcantonio, R. A. and Fuentes, A.** 2020. A Clear Past and a Murky Future: Life in the Anthropocene on the Pampana River, Sierra Leone. *Land*. Vol. 9 (3) p. e72.
- 7. Marcantonio, R. A., *Field, S. and Regan, P. M.** 2019. Toxic Trajectories Under Future Climate Conditions. *PLOS ONE*. Vol. 14 (12) p. e0226958.
- 6. Marcantonio, R. A.** 2019. Water, Anxiety, and the Human Niche: A Study in Southern Province, Zambia. *Climate and Development*. Vol. 11 (4) p. 1-13
- 5. Marcantonio, R. A. and Bolten, C.** 2019. Farmers Facing Climate Change in Southern Zambia. *Journal of Transdisciplinary Peace Praxis*. Vol. 1 (1) p. 61-84.
- 4. Marcantonio, R. A.** 2018. Water Insecurity, Illness and Other factors of Everyday Life: A Case Study from Choma District, Southern Province, Zambia. *Water SA*. Vol. 44 (4) p. 653-663
- 3. Marcantonio, R. A., Attari, S. Z., and Evans, T.** 2018. Farmer Perceptions of Conflict Related to Water in Zambia. *Sustainability*. Vol. 10 (2) p. 313-331.
- 2. Marcantonio, Richard.** 2017. Peace, Conflict, and Happiness. *International Journal on World Peace*. Vol. 24 (2) p. 77-100.
- 1. Marcantonio, R.** 2016. The Okavango River Basin Agreement: An Analysis. *African Geographical Review*. Vol. 35 (3) p. 227-246

Peer-reviewed articles under review or in production

Marcantonio, R. and Miklian, K. Under review. Conflict and Climate Events: The Great Bhola Cyclone and the Creation of Bangladesh. In Matthews, R. and LeHolland, A. Eds. *Climate Change and International Relations*. Edward Elger Press.

Marcantonio, R. and Alvarez, Kielhold, A and Florez, C.. In production. Environmental Peacebuilding and Its Inclusion in Intrastate Peace Accords: Colombia and Beyond. *Environment and Security*.

Marcantonio, R., *Pena, G. and *Gibson, L. In production. A Systematic Literature Review of the Inclusion of the Environment in Peace Agreements. *World Development*.

Marcantonio, R., *Thompson, A., Ssembajja, A., Katongole, E., and Miller, D. In production. Faith and Farming: A case study of integral ecology for sustainable development. *Ecology and Society*.

Crippa, P.,

OTHER ARTICLES/ESSAYS/LETTERS:

Marcantonio, R. and Alvarez, J. E.. 2024. Wars cause widespread pollution and environmental damage – here’s how to address it in peace accords. *The Conversation*.

Marcantonio, R. 2024. Building a Response to Environmental Violence. *New Security Beat*.

Marcantonio, R. and Hook, K. Ukraine: An Intersection of Environmental and Nuclear Security Issues. *Peace Policy*.

Marcantonio, R. and Miklian, J. 2023. Cyclone Daniel: A ‘natural’ disaster exacerbated by climate change and political instability. *Bulletin of Atomic Scientists*.

Marcantonio, R., Katsos, J, and Miklian, J. 2023. Regenerating ecologies and economies for society: Challenges and guideposts for Ukraine and beyond. *Global Policy*.

Marcantonio, R. 2023. Ukraine, the Environment, and Negotiating Peace. *Peace Policy*.

Marcantonio, R. 2023. Environmental Management: A Critical Tool for Environmental Peacebuilding. *New Security Beat*.

Lame, M. and **Marcantonio, R.** 2022. Environmental managers needed to hold thin green line of climate change. *The Hill*.

Marcantonio, R. 2022. A Case Study in the Environmental Risks of War: Kyiv Hydroelectric Power Plant. *The Center for Climate and Security*.

Hook, K. and **Marcantonio R.** 2022. Grappling with environmental risks in the fog of war. *Bulletin of Atomic Scientists*. (also published by Le Scienze, the Italian edition of Scientific American)

Marcantonio, R. 2021. Air pollution kills: Making that official can help us tackle it. *Grist*.

Marcantonio, R. and Hook, K. 2020. The Environment in Warfare-Related Policy Making: The case of Ukraine. *Small Wars Journal*.

Hook, K. and **Marcantonio, R. A.** 2018. War-related Environmental Disaster in Ukraine. *The Bulletin of Atomic Scientists*.

Marcantonio, R. and Lame, M. 2016. Message to Trump and State Governors: Stop the War on the Environment. *The Hill*.

Marcantonio, Richard. 2015. Military and Environmental Management: A Comparative Look. *Journal of Environmental Management Arizona*. Vol. 12 (2) p. 6-7

EXPERT MEDIA COVERAGE (quoted):

-USA Today -Bulletin of Atomic Scientists -Publico -The Hill -Le Scienze
-MSNBC -Mongabay -Indian Express -Times of India -Mongabay

COMMISSIONED REPORTS:

Marcantonio, R. 2019. Illegal Mining and Contamination Along the Pampana River. Report written for the Conservation Society of Sierra Leone, the Sierra Leone Environmental Protection Agency, and the Sierra Leone National Protected Areas Authority.

Marcantonio, R. 2019. Feasibility of Residential and Health Clinic Rebuild in Abaco, The Bahamas Post-Hurricane Dorian. Report written for Team Rubicon and the Pan-American Health Organization.

Marcantonio, R. 2018. Impact of Residential Roof Rebuild in Puerto Rico Post-Hurricane Maria. Report written for Team Rubicon.

Marcantonio, R. 2016. Smallholder Farmer Perceptions and Responses Related to Water Issues in Choma District, Southern Province, Zambia. Report written for the Zambian Agricultural Research Institute and the Zambian Ministry of Agriculture.

Marcantonio, R. and Freeland, J. 2012. Critical Skills Assessment of the Afghan National Army 2nd Kandak, 1st Regiment. Report written for International Security Assistance Force - Partnered Forces Command, Afghanistan.

Marcantonio, R. 2011. Assessment of Village Stabilization through Agricultural Development in Tughay, Sangin District, Helmand Province, Afghanistan. Report written for US Agency for International Development and Regimental Combat Team – 5 Command, Afghanistan.

RESEARCH GRANTS:

- 2023** **National Science Foundation DISES, Co-PI, \$1.8 million (under review) for ‘From airsheds to neighborhoods – ‘Trans-scalar integrated air pollution modeling for environmental management and justice’**
- 2023** **Humanity United and the Omidyar Network, Lead Co-PI, \$5k for Exploring Environmental Violence**
- 2023** **Princeton High Impact Research Award, Lead Co-PI, \$5k awarded for “Environmental Violence: A tool for planetary health research**
- 2022-2024** **John Templeton Foundation Cultural Evolution Society Transformation Fund, Co-PI, \$43K awarded for ‘Cultural Evolutionary Theory and Natural Resource Management Working Group’**
- 2022-2024** **The Lucy Institute for Data and Society, Co-PI, \$150k (initial seed grant) for ‘Toxic Air Pollution Modelling, Policy, Management, and Justice’**
- 2022** **Humanity United and the Omidyar Network, lead Co-PI, \$10k (initial seed grant)**
- 2019-2021** **National Science Foundation Socio-Environmental Synthesis Center Pursuit, Co-PI, \$143K for Water and Conflict Across the African Continent**
- 2019** **GLOBES Program Mini-Grants Research Award, University of Notre Dame, \$2500**
- 2019** **Institute for Scholarship in the Liberal Arts Graduate Student Research Award, University of Notre Dame, \$3750**
- 2018** **GLOBES Program Mini-Grants Research Award, University of Notre Dame, \$3500**
- 2018** **Institute for Scholarship in the Liberal Arts Graduate Student Research Award, University of Notre Dame, \$3750**
- 2018** **Anthropology Field Research Development Grant, Anthropology Department, University of Notre Dame, \$2K**
- 2017** **Kellogg Institute Graduate Research Grant, Kellogg Institute for International Studies, University of Notre Dame, \$4624**
- 2017** **Kroc Institute Summer Professional Development Grant, Joan B. Kroc Institute for International Peace Studies, University of Notre Dame, \$2K**
- 2016** **Sustainability Research Development Grant, Office of Sustainability, Indiana University, \$8,200**

ACADEMIC FELLOWSHIPS AND HONORS:

- 2022** **Integration Project Award**, Lucy Institute for Data and Society, University of Notre Dame – awarded to project team (see project below)
- 2016-2021** **Richard and Peggy Notebaert Premier Fellowship**, the Graduate School, University of Notre Dame, top competitive fellowship offered by the Graduate School, \$534K
- 2019-2021** **Dolores Zohrab Liebmann Fellowship**, The Liebmann Foundation, \$252K
- 2017** **Mullen Family Fellow**, The Joan B. Kroc Institute for International Peace Studies, University of Notre Dame
- 2015 – 2016** **Pat Tillman Foundation Scholar** (competitive fellowship for veteran leaders), \$15K
- 2015-2016** **Scott Chilcote Fellowship**, School of Public and Environmental Affairs, Indiana University, \$1K
- 2005-2009** **Naval Reserve Officer Training Corps Scholarship**, University of Texas at Austin, \$105K
- 2006-2008** **Varsity Letter and Academic All-Big 12 Football First Team**, University of Texas at Austin

PUBLIC PRESENTATIONS AND PANELS:

Professional Conferences / Invited Lectures

- 2023** Environmental Peacebuilding Association Transitional Justice Working Group panel series. “Transitional Justice in Colombia: The Environment as-and-for Transitional Justice” Co-convenor with Carl Bruch and Munini Mutuku; and moderator.
- 2023** Notre Dame Deloitte Center for Ethical Leadership Annual Forum. “The Environment and Business: Challenges and Opportunities for Positive Peace”, invited lecture.
- 2023** International Studies Association Latin American and Caribbean Regional Conference, Bogota, Colombia. “Environmental peacebuilding in formal peace agreements”, paper presentation.
- 2023** Heinrich Boll Stiftung Foundation – Bogota Office. “Environmental Violence and Peacebuilding”, invited lecture.
- 2022** Pat Tillman Foundation and Georgetown University. “Climate and Healthcare”, invited panel chair.
- 2022** Humanity United and Alliance for Peacebuilding. “The Environment in the Colombian Peace Agreement and Implementation”, invited co-panelist.
- 2022** Deloitte Leadership Institute Scholars Colloquium. “The Ethics of Environmental Dimensions of the Russian War of Aggression in Ukraine” invited lecture

- 2022** Summer Leadership Seminar at the University of Notre Dame. “Environmental Violence in Everyday Life”, invited lecture
- 2022** Earth Week Series at the College of Lake County’s Center for Nonviolence. “Environmental Risks in the Fog of War-Ukraine”, co-presented with Dr. Kristina Hook
- 2022** Environmental Policy Series Lecture at the School of Public and Environmental Affairs at Indiana University – Bloomington. “Environmental Management for Environmental Peacebuilding”, invited lecture
- 2022** Barrows Fellows Lecture at Marine Corps University. “Migration and Climate Change: Environmental stress as the dominant mobilizer in the 21st century”, invited lecture
- 2022** USAID Environmental and Natural Resources Conflict and Violence Working Group Brief. “Environmental Violence: It’s causes, consequences, distribution, and antidotes”, invited lecture
- 2021** Environmental Peacebuilding Association Annual Meeting. “Environmental Violence in Environmental Peacebuilding” discussed as a panelist for a session titled “Peace Innovations”
- 2019** Joan B. Kroc Institute Sustainable Peace Conference. “Environmental Violence in Peace Studies and Everyday Life” in a panel forum, and also participated as a discussant on roundtable discussion titled “Sustainable Peace in the Anthropocene?”
- 2019** Sierra Leone Conservation and Environmental Protection Conference. Presented research findings of ongoing work with the Conservation Society of Sierra Leone on the Pampana River watershed to the Sierra Leone Environmental Protection Agency, National Protected Areas Authority, the Ministry of Mines, the Ministry of Agriculture, Forestry, and Food Security, and multiple international NGOs.
- 2019** University of Notre Dame Student Peace Conference, invited moderator for panel titled “Sustainable Peace, Sustainable Futures”
- 2018** University of Notre Dame Student Peace Conference, invited moderator for panel titled “Seeing the World Through a Peacebuilder's Lens: Visual Representations of Conflict”
- 2018** The American Anthropological Association Annual Conference in Washington, D.C. Presented a paper titled “Conflict, Contamination, and Anxiety: Environmental violence from water issues in Southern Province, Zambia”
- 2017** The Global Family for Love and Peace Think Tank Meeting in Yangon, Myanmar. Presentation titled “Environmental Ethics, Perspectives, and Narratives”
- 2017** Society for Applied Anthropology Annual Conference in Sante Fe, New Mexico. Presented a paper titled “Water Scarcity and Implications of Conflict in Southern, Zambia”

Public forum presentations

- 2023** Office of Sustainability Earth Day Panel on “Climate Justice”. Invited panelist.
- 2020** Joan B. Kroc Institute *Shaping Peace Together: Envisioning a Post-Pandemic World*. Invited panelist to speak on the topic of Covid-19, Climate Change, and Envisioning Positive Peace.
- 2020** Joan B. Kroc Institute *Kroc Cast: Peace Studies Conversations*. Podcast panel discussion titled “The Coronavirus Crisis through Gender, Environmental, Anthropological and Indigenous Lenses”
- 2018** Izaak Walton League of America, South Bend, Indiana. Presentation titled “Human Modification of the Global Landscape”
- 2016** Center for Social Concerns at the University of Notre Dame Labor Café in Notre Dame, Indiana. Presentation titled “Laboring Under Climate Change”

CONFERENCES CONVENED:

- 2022** “ND-RAND Inaugural Forum for Competitive Statecraft”. Chief of Staff for conference co-hosted by the University of Notre Dame and the RAND Corporation hosting 40+ exclusively high-level participants ranging from a 4-star General to the former Administrator of USAID.
- 2022** “Gathering of the Hearts: Braiding our ways of being”. Lead Convener with John Paul Lederach and Agustin Fuentes for wholly virtual public and private sessions attended by >100 participants. Gathering funded by Humanity United.

FUNDED RESEARCH PROJECTS:

- 2023-present** **Sustainable Water Resources, Agriculture, and Supply Chains to Support Livelihoods in an Artisanal Mineable Landscape**
 Notre Dame, IN and CINCIA and Caritas Madre de Dios in Puerto Maldonado, Peru
 As Lead PI with Co-PIs Jen Tank (Biology and ECI), Diogo Bolster (CEES and ECI), and Alfonso Pedraza-Martinez (ITAO), we are exploring how science and innovation are needed to break this cycle of unsustainable production and explore sustainable livelihoods as a vehicle for environmental peacebuilding. Just as global environmental change is accelerating, resulting in increased direct risks to human health, so too are the environmental stresses on livelihood production—especially for those with the least material means for meeting their needs. And identifying the intersecting and potentially synergistic risks of toxic pollution and climate change is essential to effective adaptation and policymaking yet these two risk streams are rarely measured together especially in subnational assessments. The case of gold mining in the Madre de Dios River Valley is an archetype of this wicked problem, with a recent proliferation of informal mining, unclear alternatives, and growing social and political discord between disparate groups in the area. Working with Caritas Madre de Dios and the Scientific Innovation Center of the Amazon (CINCIA), two locally led organizations active in the area, offers a prime opportunity to explore sustainable regenerative solutions and livelihoods.

- 2023-present Sowing Hope Lab (in partnership with REEL)**
 Notre Dame, IN and Bethany Land Institute, Uganda
 As a Co-PI with lead PI Fr. Emmanuel Katongole, we employ a scholar practitioner approach, investigate the (a) meaning - what is it and how does it relate to other ecological approaches (b) applicability - how is it cultivated, taught, learnt, and (c) impact - how effective is it in responding to twin cries of the earth and of the poor? The overall goal of the project will be to develop a clearer understanding of integral ecology, and study a practical model of its application, which will hopefully inspire other models, but also offer an opportunity to assess the promise, adequacy, as well as the challenges related to “integral ecology” as a response to the twin challenges of ecological degradation and poverty. This work is partially formed by a partnership between REEL (my course and research lab) and the Bethany Land Institute.
- 2022-present From airsheds to neighborhoods – Trans-scalar integrated air pollution modeling for environmental management and justice,** Notre Dame, IN and Chicago, IL
 I am a Co-PI with Diogo Bolster, Stefano Castruccia, Paola Crippa, and Daniel Woods. Assessing the impact of air pollution on human exposure and health is thus a critical task for public policy and addressing the main source of environmental violence (EV) (i.e., direct harm to human health from anthropogenic pollution). This project will develop a new trans-scalar framework, spanning from the regional scale, to the airshed and down to the neighborhood level, to understand and improve the interactions between air quality, regulatory policy and their resulting impact on public health, to reduce human health risk and enhance urban sustainability.
- 2018-2022 The Effects of Extreme Weather Exacerbated by Climate Change,** Notre Dame, IN and disaster sites across North America.
 I lead this project in partnership with Team Rubicon, an international disaster relief organization, to better understand survivor perceptions and experience with climate-driven disasters and associated contexts. The goal is to refine and expand current measures of disaster and their impacts on everyday life, especially non-economic forms of loss and damage, and map the unequal distribution of risk, vulnerability, and impacts along lines of race, ethnicity, socioeconomic status, citizenship status, and other factors. Methods include participant-observation, semi-structured interviews, elemental analysis of environmental samples, spatial analysis, and visual data collection. This project is part of my “Environmental Violence in the Earth System and the Human Niche” project.
- 2017-2022 Toxic Pollution in the Pampana and its Effect on Everyday Life,** Notre Dame, IN and Tonkolili and Koinadugu Districts, Sierra Leone.
 I led this project in partnership with riparian communities whose daily lives are being disrupted by mining operations that are degrading the lands and river that they rely on for their everyday practices, needs, and wellbeing. Methods include ethnography, focus group discussions, environmental quality and risk assessment, elemental and spatial analysis, and visual data collection. The project was partnered with the Conservation Society of Sierra Leone, a local grassroots organization. This project was part of my “Environmental Violence in the Earth System and the Human Niche” project.

- 2015-2018** **Water Scarcity and Implications of Conflict in Zambia**, Bloomington, IN and Southern Province, Zambia.
Led and executed an interdisciplinary and multi-method project partnered with the Zambian Agricultural Research Institute investigating new approaches for exploring diverse forms of conflict—from intrapersonal to direct violence—under varying conditions imposed by climate change at the individual, household, intercommunity and intra-community scales.
- 2016** **Contiguous Conservation Corridor Development**, Bloomington, IN.
Led a six-person research team in developing an assessment model calibrated by economic cost, ecological value, and continuity of land parcels to produce a cost-efficient contiguous conservation corridor from Bloomington, IN to the confluence of the Wabash and Ohio Rivers. This project supported planning of the Eastern Tallgrass Prairies and Big Rivers Landscape Conservation Cooperative in the US Department of the Interior and the non-profit organization Sycamore Land Trust.
- 2015-2016** **Agricultural Decision Making and Adaptive Management Project at the Center for the Study of Institutions, Population, and Environmental Change**, Bloomington, IN and Southern Province, Zambia.
This project aims to create models of smallholder decision making in the face of climate and water variability, and to determine factors that lead to increased adaptation and resilience. Designed and executed field data collection and analysis and served as the operational planner and coordinator.
- 2012** **Afghan Army Critical Skills Assessment, 1st Marine Expeditionary Force Directed Research and Assessment**, Musa Qaleh District, Helmand Province, Afghanistan.
Design quantitative and qualitative assessment methodology to evaluate all units of the ANA battalion; Collect and organize data in order to determine trends and shortfalls through data analysis; develop a training plan addressing those skills which must be progressed in order to facilitate ANA battalion’s assumption of security lead.
- 2011** **Commander’s Emergency Relief Fund Leader, RCT-5 and Afghan Government Directed Research and Development**, Sangin District, Helmand Province, Afghanistan.
Collect data on and assess basic infrastructure and economic shortfalls within assigned area and determine feasibility of addressing identified issues; Design, develop, and execute small scale projects through local personnel and leadership promoting sustainable progress and practices; Appropriated \$115,000 in development funds.

PROFESSIONAL EXPERIENCE:

Leadership and Management

Team Rubicon, International Medical Team Leader, 2018 – Present

- Medical Team Leader for a 13-person team comprised of emergency medicine physicians, nurse practitioners, nurses, paramedics, and a communications specialist
- Plan and execute security, logistical, communications, mobility, and sustainment needs in austere environments for extended durations to provide medical services to affected people and communities

-Coordinate efforts with UN OCHA cluster leads and adjacent government, non-government, and private disaster aid and relief teams.

Graduate or Mixed Courses Taught

Business on the Frontlines (MBA, MGA, and Law)
Environmental Violence and Peacebuilding (PhD)
Preparing for the Field
Structural Violence (grad/undergrad)
Environmental Management (MPA grad/undergrad)
Natural Resource Management and Policy (MPA grad/undergrad)

Undergraduate Courses Taught

Social Entrepreneurship
Foundations of Ethical Behavior
Global Environmental Change and the Human Niche

Workshops

May 2018 **Eck Institute for Global Health**, Notre Dame, IN
Designed and led course of instruction for a 2-day training workshop titled “Preparing for the Field” for 28 Global Health Master’s students preparing for international fieldwork in 23 different countries.

Professional Trainings

2015-present **Pinnacle Leadership, LLC**, Bloomington, IN
Leadership Development Trainer
Lead leadership development seminars and training events for clientele (>1,000 to date) ranging from corporate executives to collegiate athletes focusing on resiliency, synergy, initiative, and servant leadership.

2012 **United States Marine Corps**, Helmand Province, Afghanistan
Instructor Trainer, Mobile Training Cadre Team
Designed and led training of critical skills for Afghan Army and Police leadership (~45 instructors and 1,100 personnel trained) resulting in the creation of an organic, sustainable training cadre and center of excellence.

2011 **United States Marine Corps**, Helmand Province, Afghanistan
Instructor Trainer, Afghan Army Small Unit Leaders Training
Led daily training sessions with Afghan Army soldiers and commanders (~80 personnel) in counterinsurgency and village stabilization operations.

2010-2013 **United States Marine Corps**, Camp Pendleton, California
Instructor Trainer and Lead Instructor, Military Operations Training
Designed and led daily training ranging from indigenous population interactions and data collection to offensive and village stabilization operations for 48 Marines and Sailors.

MENTORSHIP

Undergraduates mentored

Shea Aquilano (Cognitive Science and Sustainability) – graduated 2022
Gabrielle Pena (Peace Studies and French) – in progress
Bryan Fok (Global Affairs, History, and Italian) – in progress
Liam Gibson (Global Affairs, History, and Russian) – in progress

Graduate students advised

Alix Underwood (Master of Global Affairs) – graduated 2022
Anna Thomas (Master of Global Affairs-Master of Business Administration) – in progress
Lydia Knoll (Master of Global Affairs-Master of Business Administration) – in progress
Olfa Jelassi (Master of Global Affairs) – in progress

Doctoral Students Advised

Dustin Sanchez, Ph.D. in Geography and Environmental Studies at Texas State University – in progress

FIELD CERTIFICATIONS:

American Mountain Guide Association – Single Pitch Instructor
Wilderness Medical Association – Wilderness First Responder
Leave No Trace Trainer
American Red Cross: First Aid / CPR / AED
International Association of Public Participation: Crisis Communications Communicator

PROFESSIONAL MEMBERSHIPS:

Environmental Peacebuilding Association
– Founding Member and Co-Director of the Transitional Justice Working Group
International Studies Association
– Environmental Studies Section and Peace Studies Section
Sigma Xi – The Scientific Research Honor Society
Society for Catholic Scientists

INSTRUMENTATION AND INFORMATION TECHNOLOGY:

Instrumentation

Bruker Tracer 5i portable X-ray Fluorescence Spectrometer
Milestone DMA-80 Tricell Direct Mercury Analyzer
Thermo Fisher Scientific Inductively Coupled Plasma – Optically Emission Spectrometer
Hach 2100Q Portable Turbidimeter
Global Positioning System – Multiple devices and systems

Software

Fully functional: Minitab 19; Google Earth Pro; QGIS; SAS; Microsoft suite
Manager's functionality: ArgGIS; R; STATA

OTHER DEMONSTRATED SKILLS:

Strategic Planning
Measurement and Evaluation
Leadership Development
Outdoor Education

Expedition and Fieldwork Planning