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POSITIONS

2021-22: Postdoctoral Research Associate, Joan B. Kroc Institute for International Peace Studies, University of Notre Dame, Notre Dame, IN

EDUCATION

University of Notre Dame, Notre Dame, IN

Joint-Ph.D. in International Peace Studies and Anthropology, Kroc Institute for International Peace Studies, 2021. Graduate Certificate in Environment and Society.

Dissertation: “Environmental Violence in the Earth System and the Human Niche” Chair: Agustin Fuentes; Committee members: Cat Bolten, Gary Lamberti, and Donna Glowacki

University of Notre Dame, Notre Dame, IN

Master of Arts in Anthropology, May 2018.

Indiana University School of Public and Environmental Affairs, Bloomington, IN

Master of Public Affairs, Environmental Policy and Natural Resource Management, May 2016.

University of Texas, Austin, TX

Bachelor of Arts, Geography and the Environment, Minor in History, May 2009.

AWARDS

Fellowships/Scholarships for Graduate and Undergraduate School

Richard and Peggy Notebaert Premier Fellowship, the Graduate School, University of Notre Dame, top fellowship offered by the Graduate School, six years tuition and \$34,000 annual stipend (\$534K awarded in total), 2016 – 2022

Dolores Zohrab Liebmann Fellowship, The Liebmann Foundation, three years full-tuition and stipend funding (\$252k awarded in total), 2019 – 2022

Mullen Family Fellow, The Joan B. Kroc Institute for International Peace Studies, University of Notre Dame, 2017 – 2018

Pat Tillman Foundation Scholar (competitive fellowship for veteran leaders), \$15,000 awarded, 2015 – 2016

Scott Chilcote Fellowship, School of Public and Environmental Affairs, Indiana University, \$1,000 awarded, 2015 – 2016

Naval Reserve Officer Training Corps Scholarship, University of Texas at Austin, four-years full-tuition and stipend, 2005 – 2009

OTHER AWARDS

Outstanding Graduate Student Teaching Award, The Graduate School, Notre Dame, 2018

Navy and Marine Corps Commendation Medal, United States Marine Corps, 2013

Navy and Marine Corps Achievement Medal 2nd Award, United States Marine Corps, 2012

Navy and Marine Corps Achievement Medal with combat ‘V’ for valor, United States Marine Corps, 2011

1st Team, All-Big 12 Academic Football Team Award, University of Texas at Austin, 2008-2009

Naval Reserve Officer Training Corps Leadership and Academic Awards, two-time recipient of this competitive award, University of Texas, \$1,000 awarded each time, 2008 – 2010

TEACHING EXPERIENCE

Academic

University of Notre Dame, Notre Dame, IN

Instructor of Record, Preparing for the Field, Eck Institute for Global Health, Jan 2018–May 2018

Designed and taught “Preparing for the Field”, which teaches graduate and undergraduate students how to plan and prepare for their expected fieldwork and to be durable in the field, particularly while traveling to austere or unfamiliar areas with minimal established support infrastructure.

University of Notre Dame, Notre Dame, IN

Co-Instructor, Structural Violence, Kroc Institute, Aug 2017–Dec 2017

Evaluated student performance, managed administrative and resource needs, and led multiple classes for 25 undergraduate, Master’s, and Ph.D. students on the topic of Structural Violence. Received an overall TA rating of 4.97 out of 5 by students in the course and received Outstanding Teaching Assistant award.

Indiana University, Bloomington, IN

Teaching Assistant and Co-Instructor, School of Public and Environmental Affairs, Aug 2014–May 2016

Prepared lesson plans and led discussion sections for approximately 155 students and evaluated student performance for courses in undergraduate and graduate level Environmental Management (over 3 semesters). Designed and led lectures multiple times at each level throughout the semesters. Co-taught Natural Resource Management and Policy for 83 undergraduate students with Dr. Marc Lame.

Workshops

Eck Institute for Global Health, Notre Dame, IN, May 2018

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.

RESEARCH GRANTS

National Science Foundation Socio-Environmental Synthesis Center Pursuit, Co-Investigator for a 2-year funded pursuit on “Water and Conflict Across the African Continent”, 2019-2021, \$143k in total

GLOBES Program Mini-Grants Research Award, University of Notre Dame, \$2500 awarded, 2019

Institute for Scholarship in the Liberal Arts Graduate Student Research Award, University of Notre Dame, “Tracking Environmental Violence in the Global Landscape Part II,” \$3750 awarded, 2019

GLOBES Program Mini-Grants Research Award, University of Notre Dame, \$3500 awarded, 2018

Institute for Scholarship in the Liberal Arts Graduate Student Research Award, University of Notre Dame, “Tracking Environmental Violence in the Global Landscape Part I,” \$3750 awarded, 2018

Anthropology Field Research Development Grant, Anthropology Department, University of Notre Dame, \$2000 awarded, 2018

Kellogg Institute Graduate Research Grant, Kellogg Institute for International Studies, University of Notre Dame, “Farmer Perceptions of Environmental Change and Disruptions in Tonkolili District, Sierra Leone,” \$4624 awarded, 2017

Kroc Institute Summer Professional Development Grant, Joan B. Kroc Institute for International Peace Studies, University of Notre Dame, “American Alpine Institute Alpine Mountain and Technical Leadership Training”, \$2000 awarded, 2017

Sustainability Research Development Grant, Office of Sustainability, Indiana University, “Water Scarcity and Implications of Conflict in Zambia,” \$8,200 awarded, 2015 – 2016

FUNDED RESEARCH PROJECTS

The Effects of Extreme Weather Exacerbated by Climate Change, Notre Dame, IN and disaster sites across North America. August 2018 – Present.

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.

Toxic Pollution in the Pampana and its Effect on Everyday Life, Notre Dame, IN and Tonkolili and Koinadugu Districts, Sierra Leone. April 2017 – Present.

I lead 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 is partnered with the Conservation Society of Sierra Leone, a local grassroots organization. This project is part of my “Environmental Violence in the Earth System and the Human Niche” project.

Water Scarcity and Implications of Conflict in Zambia Project, Bloomington, IN and Southern Province, Zambia. May 2015 – Jan 2018.

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.

Contiguous Conservation Corridor Development, Bloomington, IN. Jan 2016 – May 2016

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.

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. April 2015 – July 2016.

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. I

Afghan Army Critical Skills Assessment, 1st Marine Expeditionary Force Directed Research and Assessment, Musa Qaleh District, Helmand Province, Afghanistan. Mar 2012 – Aug 2012.

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.

Commander's Emergency Relief Fund Leader, RCT-5 and Afghan Government Directed Research and Development, Sangin District, Helmand Province, Afghanistan. Mar 2011 – Sep 2011.

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.

PUBLICATIONS AND REPORTS

Books

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

Marcantonio, R. (Under contract) *Environmental Violence in the Earth System and the Human Niche*. Cambridge University Press.

Marcantonio, R., Fuentes, A., and Lederach, J.P. eds. (In production) *Environmental Violence Explored*. Cambridge University Press.

Peer-reviewed Articles

*indicates authorship in alphabetical order

Marcantonio, R., Fields, S., Javeline, D., and Fuentes, A. In press. Global distribution and coincidence of pollution, climate impacts, and health risk in the Anthropocene. *PLOS ONE*.

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

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*, p. 1-22

*Bunting, E., Herndon, J., Mack, E., **Marcantonio, R.**, 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

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. 12

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)

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.

Marcantonio, R. A., Field, S. and Regan, P. M. 2019. Toxic Trajectories Under Future Climate Conditions. *PLOS ONE*. Vol. 14 (12) p. e0226958.

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

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.

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

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.

Marcantonio, Richard. 2017. Peace, Conflict, and Happiness. *International Journal on World Peace*. Vol. 24 (2) p. 77-100.

Marcantonio, R. 2016. The Okavango River Basin Agreement: An Analysis. *African Geographical Review*. Vol. 35 (3) p. 227-246

Peer-reviewed Articles Under Review

Marcantonio, R., and Fuentes A. Under Review. Environmental Violence: A tool for planetary health. *Lancet Planetary Health*.

Marcantonio, R., Mack, E., Bunting, E., Ross, A., Zimmer, A., Evans, T. and Hennebry, G. Under Review. A Systematic Literature Review of the Relationship Between Water and Conflict on the African Continent. *Climatic Change*.

Hook, K. and **Marcantonio, R.** Under Review. Sovereignty, Hybrid Warfare, and Social Responsibility: The Ukrainian Environmental Crisis and Dominant Power-Driven Asymmetric Warfare. *Small Wars and Insurgencies*.

Other Publications

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

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 Rebuild in Abaco, The Bahamas Post-Hurricane Dorian. Report written for Team Rubicon.

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.

Professional Trainings

Pinnacle Leadership, LLC, Bloomington, IN
Leadership Development Trainer, Jan 2015 – Present

Lead leadership development seminars and training events for clientele (>1,000 to date) ranging from corporate executives to collegiate athletes focusing on resiliency, synergy, and initiative.

United States Marine Corps, Helmand Province, Afghanistan

Instructor Trainer, Mobile Training Cadre Team, Feb 2012 – Sep 2012

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 school.

United States Marine Corps, Helmand Province, Afghanistan

Instructor Trainer, Afghan Army Small Unit Leaders Training, Feb 2011 – Oct 2011

Led daily training sessions with Afghan Army soldiers and commanders (~80 personnel) in counterinsurgency and village stabilization operations facilitating their transition to leading stabilization efforts.

United States Marine Corps, Camp Pendleton, California

Instructor Trainer and Lead Instructor, Military Operations Training, Jul 2010 – Sep 2013

Designed and led daily training ranging from indigenous population interactions and data collection to offensive and village stabilization operations for 48 Marines and Sailors.

PROFESSIONAL EXPERIENCE

United States Marine Corps, Camp Pendleton, CA

Captain, Rifle Company Commander, 2nd Battalion, 5th Marines, Nov 2012 – Oct 2013

--Awarded the Navy and Marine Corps Commendation Medal for “handling challenges flawlessly and displaying incredible attention to detail.”

--Received the highest evaluation ever written by the Battalion Commander to officers of the same rank.

--Led, trained, and ensured the well-being of 150+ Marines, and accounted for and maintained over \$2M worth of optics, weapons, and serialized equipment and a \$4m training budget.

United States Marine Corps, Musa Qalah, Helmand, Afghanistan

1st Lieutenant, Afghan National Army (ANA) Operations and Development Advisor, Advisor Team 1, Nov 2011 – Nov 2012

--Awarded the Navy and Marine Corps Achievement Medal for “overwhelming success due to his initiative and foresight to eliminate friction during the team's combat operations in Afghanistan.”

--Received the Battalion Commander’s highest evaluation out of 110 evaluated officers.

--Designed, coordinated and implemented training, establishing an organic Afghan cadre and trained 750+ Afghan National Army soldiers and Afghan National Policemen.

--Held over 100 formal planning and negotiation sessions with myriad foreign military, government and civilian leaders to assess and improve security, economic issues, and develop sustainable solutions.

United States Marine Corps, Sangin, Helmand, Afghanistan

2nd Lieutenant, Platoon Commander, 1st Battalion, 5th Marines, Jun 2010 – Nov 2011

--Awarded the Navy and Marine Corps Achievement Medal with combat “V” for Valor and awarded Combat Action Ribbon for actions under hostile enemy fire.

--Leader of 62 Marines and 34 Afghan National Army soldiers in the embattled Sangin District.

--Commanded an isolated combat managing combat operations, village stabilization, local governance development and military training with a partnered Afghan force and the local community.

--Designed and funded \$115,000 in infrastructure, agricultural and water development projects promoting security stabilization and sustainable economic growth as a certified Commander's Emergency Relief Program appropriator.

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

PRESENTATIONS

Professional Conferences

- Joan B. Kroc Institute Sustainable Peace Conference in November of 2019. Presented paper titled “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?”
- Sierra Leone Conservation and Environmental Protection Conference in April of 2019. 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.
- University of Notre Dame Student Peace Conference in March of 2019, invited moderator for panel titled “Sustainable Peace, Sustainable Futures”
- University of Notre Dame Student Peace Conference in April of 2018, invited moderator for panel titled “Seeing the World Through a Peacebuilder's Lens: Visual Representations of Conflict”
- The American Anthropological Association Annual Conference in Washington, D.C. in December of 2018. Presented a paper titled “Conflict, Contamination, and Anxiety: Environmental violence from water issues in Southern Province, Zambia”
- The Global Family for Love and Peace Think Tank Meeting in Yangon, Myanmar in October of 2017. Presentation titled “Environmental Ethics, Perspectives, and Narratives”
- Society for Applied Anthropology Annual Conference in Sante Fe, New Mexico in March of 2017. Presented a paper titled “Water Scarcity and Implications of Conflict in Southern, Zambia”

Public forum presentations

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

INSTRUMENTATION AND SOFTWARE PROFICIENCY

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