Matt Ziegler

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EDUCATION

University of Washington (Sep 2018–Dec 2022, expected)
PhD Candidate in Computer Science and Engineering. Masters degree awarded in 2021.
Advised by Richard Anderson and Kurtis Heimerl.

University of Wisconsin – Madison GPA: 3.785 (Fall 2009 – Spring 2013)
BS with double major in Computer Science and Biological Aspects of Conservation

Summer Institute for Training in Biostatistics (Summer 2011)
Department of Biostatistics and Medical Informatics, University of Wisconsin

Høgskolen I Telemark – Bø, Norway (Fall 2011)
Alpine Ecology and Environmental Management program

PUBLICATIONS

[In preparation] Matt Ziegler, Richard Anderson. **A Cross-Sectional Study of Environmental Organizations' Communication Technology Practices**

[In preparation] Matt Ziegler, Miranda Wei, Nicholas Njogu, Ian Muiruri, Richard Anderson, Kurtis Heimerl. **"We See Things but We're Afraid to Call:" Tensions, Paradoxes, and Tradeoffs Designing an Anti-Poaching Hotline**

Matt Ziegler, Galen Weld, Ewin Tang, and Maureen Daum (2022). **Demo: Visualizing USSD and IVR Usage Data with Icicle Charts.** ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies (COMPASS '22). https://doi.org/10.1145/3530190.3542934

Matt Ziegler, Michael Quinlan, Zage Strassberg-Phillips, Manasi Shah, Lauren Vreeken, Chris Jones, Karen Goodfellow, Jes Lefcourt, Richard Anderson, Kurtis Heimerl (2021). **"How's Shelby the Turtle today?" Strengths and Weaknesses of Interactive Animal-Tracking Maps for Environmental Communication.** ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS '21) https://doi.org/10.1145/3460112.3471967. Honorable mention

Sylvia Janicki, Matt Ziegler, Jennifer Mankoff (2021). **Navigating Illness, Finding Place: Enhancing the Experience of Place for People Living with Chronic Illness.** ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS '21) https://doi.org/10.1145/3460112.3471955

Matt Ziegler, Morgan Wack, Nancy Ingutia, Ian Muiruri, Nicholas Njogu, Kennedy Muriithi, William Njoroge, James Long, Kurtis Heimerl (2020). **Can Phones Build Relationships? A Case Study of a Kenyan Wildlife Conservancy's Community Development.** ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS '20) https://doi.org/10.1145/3378393.3402279. Best paper award

Matt Ziegler (2019). **Who Breathes the Smoke? Technologies for Community-Based Natural Resource Management.** Fifth Workshop on Computing within Limits (LIMITS 19) https://doi.org/10.1145/3338103.3338107

Matt Ziegler, Lokesh Garg, Shailesh Tiwari, Aditya Vaishistha, Kurtis Heimerl (2019). **Fresh Insights: User Research Towards a Market Information Service for Bihari Vegetable Farmers.** 10th ACM Information and Communication Technology for Development Conference https://doi.org/10.1145/3287098.3287115

Julia Janicki, Nitish Narula, Matt Ziegler, Benoit Guénard, Evan P. Economo. (2016). **Visualizing and interacting with large-volume biodiversity data using client-server web-mapping applications: The design and implementation of antmaps.org.** Ecological Informatics. http://dx.doi.org/10.1016/j.ecoinf.2016.02.006

Matt Ziegler. (2015). **A Day in the Life of Winslow Homer: An Interactive Tour of Primate Behavioral Ecology.** Games + Learning + Society Conference. Poster presentation.

GRANTS AND FELLOWSHIPS

Center for Environmental Forensic Science Small Grant 2021: $15,000

National Science Foundation – Graduate Student Research Fellowship 2018: $138,000

Hilldale Fellowship for Undergraduate Research 2013: $3,500

TEACHING

UW CSE 599: Teachnology for Conservaton (special topic). Co-instructor (Fall 2022)

UW CSE 332: Data Structures and Parallelism. TA (Spring 2022)

UW CSE 484: Computer Security. TA (Fall 2021)

NON-ARCHIVAL CONFERENCE PRESENTATIONS

Duck Family Graduate Workshop on Environmental Politics and Governance 2021: panel discussant

Western Political Science Association Conference 2021:
A Cross-sectional Study of Mobile Phones' Effects on Wildlife Conservancy's Community Engagement

Duck Family Graduate Workshop on Environmental Politics and Governance 2020:
Using Mobile Phones to Improve Community Relations at Ol Pejeta Conservancy, Kenya

2019 UW Center for Environmental Politics Graduate Retreat:
Technologies for Community Management of Natural Resources

SELECTED WORK EXPERIENCE

Digital Green – Loop Research Intern (January – May 2018)

Menstrupedia Volunteer Design, Product Research, and Software Development Contributor
(May – June 2016, April – July 2017)

Center for Predictive Computational Phenotyping – University of Wisconsin
Associated Information Processing Consultant
(November 2015 – January 2016), (September – November 2016), (August – November 2017)

Okinawa Institute of Science and Technology – Biodiversity & Biocomplexity Unit
Visiting Researcher (March-April 2015), Consultant (December 2016 – February 2017)

Education Analytics Inc. Programmer – Limited Term (August 2014-December 2014)

Lomas Barbudal Monkey Project Field Assistant (November 2013 – January 2014)

UW Department of Biostatistics and Medical Informatics
Computer Programmer (May 2011 – May 2013), Associate Systems Programmer (May – August 2013)

Survey of Primitive Weevils in Wisconsin Volunteer Field Assistant (Summer 2013)

UW Center for Limnology – Hanson Lab Software Developer (October 2010 – May 2011)

Wisconsin Center for Educational Research Student Hourly Research Assistant (July 2009 – October 2010)

MISC. PROJECTS

How To Be a Monkey (2014 – 2017) Educational primate behavior website with data from the Lomas Barbudal Monkey Project and classroom exercises. http://howtobeamonkey.org

Hill Hacks, Himachal Pradesh (2015 – 2018) – Served as conference emcee and in group of organizers, facilitated workshops at local elementary schools and presented talks.

Undergraduate Research (2011 – 2013) Supervised learning to infer cis-regulatory modules and clustering gene-expression time series data to infer regulatory patterns.