

ALLISON E. BAER

Graduate Research Assistant
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EDUCATION

- 2018—Present Ph.D., Geographical Sciences, University of Maryland
- 2012—2015 B.S., Environmental Science and Policy, University of Maryland
Minor in Geographic Information Sciences
International Studies Scholar, College Park Scholars Program
Summa cum laude; GPA: 3.986/4.00

RESEARCH EXPERIENCE

- Aug. 2018—Present **University of Maryland, Department of Geography**
Graduate Research Assistant | College Park, MD
- July 2016—Aug. 2018 **University of Maryland, Earth System Science Interdisciplinary Center**
Faculty Assistant | College Park, MD
Performed project management functions for various research grants for the Environmental Decision Support Science Lab (formerly the Indicators Team) co-led by Drs. Melissa Kenney and Michael Gerst. Primary research tasks included managing a web-based survey, recruiting and organizing web-based interviews with decision-makers, analyzing interview transcripts, and drafting memos and reports of research results for funders. Provided support for proposal development and submission. Oversaw work schedules and manage undergraduate and graduate research assistants.
- Jan. 2016—July 2016 **Optimal Solutions Group, LLC**
Research Analyst I | College Park, MD
Served as the project manager for two contracts with the Centers for Medicare & Medicaid Services. Drafted and submitted reports, talking points, and other communication materials to clients. Ensured quality control of deliverables to clients. Performed monthly budget management for reports using Microsoft Excel.
- June 2015—Dec. 2015 **National Consortium for the Study of Terrorism and Responses to Terrorism**
General GIS Intern | College Park, MD
Conducted open-source qualitative research to contribute to a database of over 5,000 organizations. Gave 2, 10-minute presentations about sea level rise and deforestation, respectively, to colleagues and researchers. Manipulated large geospatial datasets for statistical analyses using ArcGIS.
- June 2015—Dec. 2015 **University of Maryland, Earth System Science Interdisciplinary Center**
Research Assistant | College Park, MD
Research assistant with the Environmental Decision Support Science Lab (formerly the Indicators Team), co-led by Dr. Melissa Kenney and Dr. Michael Gerst. Developed an ArcGIS map of the Chesapeake Bay for a multi-institutional research proposal.

Jan. 2014—June 2015 **U.S. Global Change Research Program**
Intern | Washington, DC
 Research assistant with the Indicators Team (currently the Environmental Decision Support Science Lab) led by Dr. Melissa Kenney. While supporting the pilot National Climate Indicators System, organized and led meetings with senior scientists and edited narratives. Created a database of 70 journal articles and reports that quantify the value of ecosystem services. Wrote a 10-page literature review about indicator systems of environmental processes. Developed orientation documentation for new interns and research assistants.

TEACHING EXPERIENCE

Spring 2017 **University of Maryland, College Park**
Teaching Assistant, Capstone in Environmental Science and Policy
 Supported two sections; 35 students. Presented course material, drafted rubrics, and graded assignments. The course covered problem framing and assessment, influence diagrams, evaluation and weight of evidence, stakeholder identification and values, stakeholder needs assessment, identification of policy options and objectives, and science communication.

PROFESSIONAL EXPERIENCE

May 2014—Dec. 2015 **University Recreation and Wellness University of Maryland**
Facility Supervisor | College Park, MD
 Supervised the facility, patrons, and up to three student staff members per shift in the 51,000 square-foot-facility. Arranged the facility for special events ranging from basketball games to music performances. Oversaw administrative duties including phones, greeting and checking in patrons.

May 2014—Aug. 2014 **Eden Mill Nature Center**
Summer Naturalist | Pylesville, MD
 Developed and facilitated 8, week-long environmental education camps for children ages 6 to 14. Supervised and oversaw work schedules of 2 college-age interns and 3 high school-age volunteers. Led canoe trips with 20 children and 3 adult volunteers.

Sept. 2013—May 2014 **University Recreation and Wellness University of Maryland**
Facility Staff | University of Maryland, College Park
 Performed administrative duties by answering phones, greeting and checking in patrons.

June 2013—Aug. 2013 **Eden Mill Nature Center**
Summer Intern | Pylesville, MD
 Facilitated a week-long environmental education camp for children ages 6 to 8. Created a public interactive display concerning waste production and recycling.

PUBLICATIONS

- Effective Visual Communication of Climate Indicators and Scientific Information: Synthesis, Design Considerations, and Examples. A Technical Input Report to the 4th National Climate Assessment Report. Gerst, M.D., M.A. Kenney, J.F. Wolfinger, **A. Baer**, et al. (2017). Version [2.0]. http://www.umdiindicators.org/?page_id=1028

HONORS & AWARDS

2018–2019	College of Behavioral and Social Sciences Dean’s Fellowship. University of Maryland.
Dec. 2016	Senior Marshal. University of Maryland
May 2015	Second Place: Undergraduate Student Poster. Sigma Xi Mid-Atlantic Regional Meeting. (Group presentation with Maria Sharova and Ying Deng).
May 2013	Primannum Honor Society New Member Scholarship.

PRESENTATIONS (* denotes presentation by co-author)

- Diagnosing Understandability Challenges in NOAA Climate Prediction Center's Temperature and Precipitation Outlooks. Presented to the ESIP, webinar, February 2018.
- Diagnosing Understandability Challenges in NOAA Climate Prediction Center's Temperature and Precipitation Outlooks. Presented at the American Meteorological Society Annual Meeting, Austin, TX, January 2018.*
- *Diagnosing Understandability Challenges in NOAA Climate Prediction Center's Temperature and Precipitation Outlooks*. Presented at the Cooperative Institute for Climate and Satellites Science Conference, College Park, MD, November 2017.
- *Identifying Users, Diagnosing Understandability Challenges, and Developing Prototype Solutions for NOAA Climate Prediction Center’s Temperature and Precipitation Outlooks*. Presented at the Cooperative Institute for Climate and Satellites Science Conference, College Park, MD, December 2016.
- *Developing a Pilot Indicator System for U.S. Climate Changes, Impacts, Vulnerabilities, and Responses*. (2015). Group presentation with Maria Sharova and Ying Deng. Presented at the Sigma Xi Mid-Atlantic Regional Meeting, Fairfax, VA. May 2015.

UNIVERSITY SERVICE

Jan. 2014–Dec. 2015	College of Behavioral and Social Sciences Ambassadors University of Maryland, College Park, MD <i>Ambassador</i> Supported over 12 outreach and recruiting activities for the College. Participated as a panelist to answer questions from newly admitted students to the College and their families.
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PROFESSIONAL MEMBERSHIPS

2015–2017	Sigma Xi Research Society, Member
2015–2016	Phi Kappa Phi, Member