

ELKE WINDSCHITL

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EDUCATION

Master of Environmental Data Science (MEDS), 3.92 GPA (Expected June 2023)

Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)

Leadership/Involvement: Dean's Advisory Council Student Representative, Master's Curriculum Committee Student Representative

Bachelor of Science in Biology, 4.00 GPA (May 2020)

Iowa State University (ISU)

Honors/Awards: Summa Cum Laude, Honors

Leadership/Involvement: Cultural Ambassador - fall 2020, Yoga Club Secretary - fall 2020, National Student Exchange Program - fall 2018 & spring 2020

Employment: Women in Science and Engineering Student Role Model - spring 2018, spring 2019 & fall 2020, Undergraduate Research Assistant Janke Lab- spring 2019 & fall 2019

SKILLS

Programming Languages: R, Python

Environments: RStudio, Jupyter Notebook, VS Code

Trainings/Workshops: Teach Me How to Google (MEDS Aug. '22), Data Science Blogs (MEDS Oct. '22), Graphic Design for Scientists (National Center for Ecological Analysis and Synthesis Aug. '22)

Certifications: Fundamentals of GIS (University of California, Davis Feb. '21), GIS Data Formats, Design, and Quality, (University of California, Davis Mar. '21)

Other Digital Literacy: GitHub, Git, ArcGIS, Word, Excel, PowerPoint, Zoom, Facebook, Instagram, Twitter

RESEARCH PROJECTS

Evaluating the Use of Autonomous Recording Units (ARU) for Monitoring Northern Bobwhite Coveys

Client: Dr. Adam Janke, Iowa Department of Natural Resources (DNR) | Undergraduate Honors Capstone Project (1/19–12/19)

- Developed 3 research questions and methods of investigation for assessing the use of ARUs – a new technology -- to study Northern bobwhite quail to further the National Bobwhite Conservation Initiative
- Processed, analyzed, and visualized extensive quail audio data using R, Raven Pro, Excel, and PowerPoint.
- Reported that ARUs can be used by researchers and the DNR to monitor occupancy of quail in rural Iowa in place of labor-intensive point count surveys
- Presented a research poster at the National Conference for Undergraduate Research

MARINE RESEARCH EXPERIENCE

Animal Behavior Research Fellow (7/21–9/21)

Virginia Aquarium and Marine Science Center (VAQ), Virginia Beach, VA

- Integrated the use of Zoo Monitor – a digital animal behavior monitoring tool -- at the aquarium by developing workflows and creating training materials for teaching other staff to use Zoo Monitor
- Collaborated with animal care staff to develop research questions to better understand how target animals' behavior changed based on time of day, location, guest count, etc.
- Collected and analyzed American crow and harbor seal behavior data using Zoo Monitor software and R
- Presented research results to ~50 aquarium staff via a 45-minute Zoom PowerPoint presentation to inform science-based animal care procedure changes at the aquarium

CONFERENCES & ADDITIONAL EXPERIENCE

Conferences: National Conference on Undergraduate Research (April 2019 & April 2021)

Additional Experience: Customer Service – Whole Foods, Seattle, WA (1/22–7/22), Animal Behavior Research Intern – Saint Louis Zoo, Saint Louis, MO (6/19–8/19)