

Amanda Jean Woolsey

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SPECIFIC QUALIFICATIONS

- Proficiency in analytical and data visualization software including Python, Figma, RStudio, JavaScript, HTML, CSS, Tableau, ArcGIS Pro/Online, QGIS, Adobe Illustrator, Adobe Photoshop, and Microsoft Excel.
- Relevant collegiate courses include: Introduction to Geospatial Systems, Software Tools (R) for Data Analysis, Interactive Data Visualization, Data Visualization and Design, Free and Open-Source Software for Web Mapping, Principles of GISc for Public Health, R Boot Camp for Ecologists and Wildlife Biologists

EDUCATION

State University of New York College of Environmental Science and Forestry (SUNY-ESF)

December 2019

Bachelor of Science: Environmental Science with a Concentration in Renewable Energy

Syracuse, New York

The Graduate Center, City University of New York (CUNY)

February 2025

Master of Science: Data Analysis and Visualization

New York, New York

PUBLICATIONS AND EDITORIAL WRITING

- Woolsey, A. J. (2025). *3BB: Loss and Remembrance in the Anthropocene*. Master's Thesis, CUNY Graduate Center. Available at: https://academicworks.cuny.edu/gc_etds/6180/
- Woolsey, A. (2023). *Community Science Data in Ecological Decision Making: A Case Study Featuring eBird*. Open Environmental Data Project, *Anatomy of Environmental Decision-Making series*. Available at: <https://www.openenvironmentaldata.org/storytelling/ebird-case-study>
- Woolsey, A. J. (2018). *Hawk Mountain Sanctuary Seeks Help from Pennsylvania Farmers*. Lancaster Farming. Available at: https://www.lancasterfarming.com/farming-news/news/hawk-mountain-sanctuary-seeks-help-from-pennsylvania-farmers/article_7842f354-a7b6-11e8-ac5a-2f7d1afe3620.html

PRESENTATIONS AND TALKS

- *Ornithic Serinette: Bird Song and Interactive Media*. Presented at the Lahti Biology Lab, Queens College, and the Research of Animal Song in Culture and Literature (RASCAL) Working Group, Royal Conservatoire of Scotland (2023).
- *All Watched Over by Machines of Loving Grace: Interactive Media Design for Machine-Animal Kinship and Science Communication*. Presented as part of Earth Species Project's Community Deep Dive Sessions (2025). Available at: <https://vimeo.com/1101210929?fl=pl&fe=sh>
- *All Watched Over by Machines of Loving Grace: Interactive Media Design for Machine-Animal Kinship and Science Communication*. Invited lecture for University of California San Diego's *Writing with Machines, Writing with Animals* course (2026). Available at: <https://vimeo.com/1172189173?share=copy>
- *Interactive Media and Immersive Technology to Explore the Umwelt of Non-human Animals*. Sentient Futures' AI, Animals, and Digital Minds Unconference (2025).

PROFESSIONAL EXPERIENCE

Dolphin Whispers Project, Remote

March 2025 – Present

Lead Strategist for Dolphins and People

- Cultivating relationships with leading bioacoustics researchers to support interdisciplinary collaboration and scientific accuracy.
- Designing data visualizations and narrative frameworks that translate complex acoustic data into emotionally resonant public engagement tools.
- Creating and implementing media strategies to amplify project visibility across digital, academic, and cultural platforms.

U.S. Fish and Wildlife Service Inventory and Monitoring Branch (I&M), SE Region *December 2023 – January 2025*
Conservation Planning Fellow

- Provided planning and data management support for I&M and National Wildlife Refuge staff to identify and prioritize natural resource management for trust resource and imperiled species
- Developed standard operating procedures, databases, data management plans, draft reports, tables, charts, ArcGIS maps and other natural resource planning and analysis products
- Completed assigned tasks related to information and data collection, acquisition, entry, organization, analysis, management and archival using RStudio, Python, and ArcGIS Pro

NYC Bird Alliance, New York City

August 2023- November 2023

Seasonal Bird Collision Monitor

- Assessed avian urban ecology issues and dynamics in New York City
- Monitored building perimeters and green roofs in downtown Manhattan for dead and injured migratory birds
- Recorded detailed data on collision location, species, date, and weather, and took photographs for all birds found
- Transported injured birds to local wildlife rehabilitator

Galli Engineering, New York City

May 2023- August 2023

Community Air Monitoring Plan (CAMP) Technician

- Performed community air monitoring during construction of lithium-ion battery system at remedial waste site
- Provided measure of protection from downwind volatile organic compounds (VOCs) as well as particulate dust matter
Established baseline level of VOCs and particulate dust matter before and after construction activities
- Encouraged the appropriate use of PPE as well as modified construction activities in response to VOC and particulate matter readings

Open Environmental Data Project, New York City

August 2022- February 2023

Freelance Writer

- Wrote long-form [article](#) on use of eBird data in modelling turbine-eagle collision risk as part of Storytelling for the Future's Anatomy of Environmental Decision Making article series
- Researched topics related to community science data, environmental data in the context of climate action, open-source data pipelines, and data visualization

Metropolitan Washington Council of Governments, Washington D.C.

June 2021-November 2021

Environmental Planner and Researcher Extern

- Assisted lead environmental planners from MWCOG's Climate and Energy team on projects related to electric vehicle charging station implementation, green building certification, targeted climate plans, and greenhouse gas emissions
- Manipulated, analyzed, and visualized large sets of data related to green building certification and electric vehicle charging stations in the Metropolitan Washington area

Hawk Mountain Sanctuary, Kempton, PA

July 2020-November 2020

Freelance Data Entry Operator/ Analyst

- Analyzed data related to migration counts, Raptor Population Indexes (RPI), and ecology studies for Hawk Mountain Sanctuary scientists
- Reviewed data for deficiencies or errors, correcting any incompatibilities, and checking output
- Visualized and interpreted data by creating graphs

University of Groningen and Beijing Normal University, Panjin, China

May 2019- July 2019

Avian Field Assistant

- Supported PhD students from University of Groningen and Beijing Normal University on behavioral ecology study of Chinese Penduline Tit in Liaohe Delta Nature Reserve, Liaoning, China and Xianghai National Nature Reserve, Jilin, China
- Observed and recorded copulation and incubation periods to assess uniparental behavior rates in both female and male Chinese Penduline Tits
- Analyzed uniparental care data and synthesized research paper for undergraduate consideration

Hawk Mountain Sanctuary, Orwigsburg, PA

May 2018- August 2018

Conservation Science Intern

- Participated American Kestrel nestling study from Cedar Crest College's Cornell Lab of Ecological Physiology and assisted Hawk Mountain Sanctuary biologists with various raptor conservation studies
- Learned basic techniques of wildlife monitoring and conservation science
- Learned identification tactics for flora and fauna local to the lower Pennsylvania area
- Built interpersonal relationship skills through living and working with both local and international ornithologists
- Wrote [memo](#) published in local newspaper on farm worker collaboration with raptor conservation organizations