

Mary Marek-Spartz

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AMATEUR RADIO CALL SIGN KEØALJ

Education

M.S. in *Geographic Information Science*, 2015

SAINT MARY'S UNIVERSITY OF MINNESOTA – DEPARTMENT OF RESOURCE ANALYSIS

4.0 GPA

B.S. in *Conservation Biology* with minors in *Housing Studies* and *Environmental Policy & Management*, 2013

UNIVERSITY OF MINNESOTA – COLLEGE OF FOOD, AGRICULTURE, AND NATURAL RESOURCES

3.6 GPA

Experience

RESEARCHER II

University of Minnesota – Agronomy Department (2013-present)

Management of multiple research projects in biological control, research design and implementation, proposal writing, spatial and quantitative data analysis of plant populations.

ADJUNCT INSTRUCTOR

Saint Mary's University of Minnesota – Geographic Information Science (2016)

GIS 632 Programming Principals

Designed and delivered content on introductory programming concepts including object-oriented, event-driven, and functional paradigms in JavaScript.

RESEARCH ASSISTANT

University of Minnesota – Entomology Department (2012-2013)

Field work, lab work, and research in biological control. Experience in greenhouse operations, biological insect containment facility operations, and maintaining insect colonies.

SOUTHEAST COMO IMPROVEMENT ASSOCIATION COMMUNITY INTERN

Como Neighborhood, Minneapolis, MN (2011-2012)

Worked to provide sustainable solutions to environmental concerns in an urban neighborhood. Tasks included project organizing, neighborhood mapping and data collection, and conducting housing surveys.

UNDERGRADUATE ZOOLOGY TEACHING ASSISTANT

University of Minnesota – Biology Department (2011-2013)

In charge of instructing labs and presenting lectures on animal development, phylogenetics and behavior. Involved dissections and caring for lab specimens.

INTERNATIONAL PROGRAM: TROPICAL MARINE BIOLOGY AND SHARK ECOLOGY

Bimini Biological Field Station, Bahamas (August 2011)

Summer course with combined field and laboratory exercises focusing on shark ecology and remote sensing in marine ecosystems of the Caribbean.

Publications, Awards, and Exhibitions

2015 *Comparing Map Algebra Implementations for Python: Rasterio and ArcPy* – Saint Mary's University of Minnesota

2014 *Frenatae*, Entomology Graduate Student Organization Calendar – University of Minnesota (Print)

2013 *Insect Illustration*, Bell Museum of Natural History – University of Minnesota (Exhibition)

2012 Undergraduate Research Opportunity Program – University of Minnesota

2011 Undergraduate Student Design and Excellence Award – University of Minnesota College of Design