

# Henry Harold Hansen

Curriculum vitae

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## EDUCATION

### **M.S. Natural Resource Sciences, University of Nebraska Lincoln**

Specialization: Applied Ecology

Cumulative GPA: 4.0

Graduation Date: May 2019

### **B.S. Environmental Science, University of Wisconsin-Stout**

Concentration: Aquatic Biology

Minors: Geographic Information Systems; Chemistry

Cumulative GPA: 3.667

Graduation Date: May 2014

## PROFESSIONAL APPOINTMENTS

### **Geographic Information Systems Programmer Analyst**

Park County Montana Local Government

November 23, 2014 - Aug 12, 2016

### **Board of Director**

Montana Association Geographic Information Professionals

June 1, 2015 – August 12, 2016

### **Geographic Information Systems Intern**

Park County Montana Local Government

Sept. 8, 2014 – November 23, 2014

### **Biological Science Technician**

U.S. Geological Survey

June 2, 2014 – Sept. 5, 2014

### **Native Mussel Survey Intern**

Minnesota Department Natural Resources

May 20, 2013 – Aug. 28, 2013

### **Backcountry Ranger Intern**

National Park Service

June 3, 2011-Aug. 28, 2011

### **Undergraduate Research Coordinator**

University of Wisconsin – Stout

Sept. 10, 2011 - May 16, 2014

### **Geographic Information Systems (GIS) Tutor**

University of Wisconsin – Stout

Sept. 5, 2013 – May 16, 2014

**Chemistry Lab Teaching Assistant**  
University of Wisconsin – Stout  
Feb. 19, 2014 – May 16, 2014

## **AWARDS**

**Best Student Presentation Award 2019**  
**Minnesota & Dakota Chapter American Fisheries Society**  
Awarded to the best student presentation at the annual chapter meeting

**Joan Duffy Award 2018**  
**North Central Division American Fisheries Society**  
Awarded to an exceptional student presenting at the Midwest Fish & Wildlife Conference

**Special Achievement in GIS Award 2015**  
**Esri**  
Awarded to organizations that set new precedents throughout the GIS community

**Samuel E. Wood Award 2014**  
**University of Wisconsin – Stout**  
Highest and most prestigious non-academic award possible for any UW- Stout student, awarded for leadership and contributions to the university, and student body.

## **RESEARCH GRANTS AND SCHOLARSHIPS**

**NSF NRT Aeroecology Fellowship - 2018 - \$34,000**  
Awarded to STEM students to support aeroecology and environmental sustainability research

**NSF Graduate Research Fellowship - 2018 - Honorable Mention**  
Recognizes and supports outstanding graduate students in NSF-supported science, technology, engineering, and mathematics disciplines

**NSF Applied Science Future Leader Scholarship 2011-14 - \$50,000**  
Awarded to exceptional STEM students that excel in the program

**Student Research Grant 2013 - \$1918.34**  
Awarded Research Grant: “Fats, leans, and in-betweens: a genetic comparison of lake trout morphotypes”

**Student Dissemination Grant 2013 – \$1021.50**  
Awarded for dissemination of “Fats, leans, and in-betweens: a genetic comparison of lake trout morphotypes” at the Wild Trout Symposium

### **Wild Trout Symposium Scholarship - \$500**

Awarded to one outstanding undergraduate student with a strong interest in conservation and restoration of native trout

### **Margaret & Herman Arneson Scholarship 2013 - \$1000**

Awarded to Applied Science Student that excels in the program

## **REFEREED PUBLICATIONS**

Hansen, H. (UNDER REVIEW) Exit Here: Strategies for Dealing with Aging Dams and Reservoirs

## **PUBLICATIONS IN PREPARATION**

Hansen, H. (~2019) Spatial Ecology of Channel Catfish in the Red River of the North

Hansen, H. (~2019) Spatial Population Dynamics of Channel Catfish in the Red River of the North

## **NON-REFEREED PUBLICATIONS**

Hansen, H. (2014) Simulated Flood Map of St. Louis Bay - Duluth, MN. GeoCue Group News

## **CONFERENCE PRESENTATIONS & POSTERS**

Hansen, H. (2018) Modelling Movement Distance of Channel Catfish in the Red River of the North. Presented at Nebraska Chapter American Fisheries Society Meeting - PRESENTATION

Hansen, H. (2018) Exit Here: Dealing with Ageing Dams & Reservoirs. Presented at Midwest Fish and Wildlife Conference - PRESENTATION

Hansen, H. (2017) Undocumented Canadians Caught in the U.S. - An in-progress investigation on international movements of Channel Catfish in the Red River of the North. Presented at Midwest Fish and Wildlife Conference - POSTER

Hansen, H. (2016) *Coordinating Zip Code Boundary Lines Roundtable*. MAGIP (Montana Association of Geographic Information Professionals) Intermountain Conference - PRESENTATION

Hansen, H. (2015) *The Park County Atlas: A Transition from Static to Interactive Geospatial Data*. Presented at MAGIP (Montana Association of Geographic Information Professionals) Spring Meeting - PRESENTATION

Hansen, H. (2014) Ichthyofaunal monitoring in the forks of the Platte River, Nebraska,

following five years of drought. Presented at National Conference on Undergraduate Research - POSTER

Hansen, H. (2013) *Fishes of Dunn County*. Presented at STEM (Science Technology Engineering Mathematics) Expo - POSTER

Hansen, H. (2013) *Fats, leans, and in between: A genetic comparison of lake trout morphotypes*. Presented at University of Wisconsin-Stout Research Day - POSTER

Hansen, H. (2012) *Multi Biotic Index Comparison of Restored and Unrestored Transects on Gilbert Creek*. Presented at STEM (Science Technology Engineering Mathematics) Expo - POSTER

Hansen, H. (2012) *Soil Analysis of Outdoor Classroom*. Presented at STEM (Science Technology Engineering Mathematics) Expo - POSTER

Hansen, H. (2012) *Radish mineral deficiency experiment*. Presented at STEM (Science Technology Engineering Mathematics) Expo - POSTER

Hansen, H. (2012) *A Genetic Search for Native Brook Trout in Western Wisconsin*. Presented at University of Wisconsin-Stout Research Day - POSTER

Hansen, H. (2011) *A Genetic Search for Native Brook Trout in Western Wisconsin*. Presented at Natural Areas Association National Conference in student poster competition - POSTER

## **VOLUNTEER POSITIONS**

### **Committee Member**

Natural Resources Diversity Initiative - University of Nebraska-Lincoln  
August 29, 2018 - May, 2019

### **Co-Organizer**

Bozeman Area R useR Group  
April 24, 2015 – August 12, 2016

### **Co-Organizer**

Montana GIS and Geospatial  
August, 2015 – August 12, 2016

### **Undergraduate Research Assistant**

University of Wisconsin – Stout  
Jan. 30, 2011-May 18, 2011

### **Hatchery Assistant**

U.S. Fish and Wildlife Service

June 2, 2012-July 7, 2012

## CERTIFICATES & TRAINING

Radar Aeroecology Training School (University of Oklahoma 2018)  
Mussels of Manitoba Workshop (Canada Fisheries & Oceans 2017)  
Introduction to Fisheries Data Analysis with R Workshop (UNL 2017)  
Programming ArcGIS with Python Workshop Intermediate (Geospatial Training Services 2015)  
Programming ArcGIS with Python Workshop Introduction (Geospatial Training Services 2015)  
Going Places With Spatial Analysis (Esri 2015)  
Extend ArcGIS to your Mobile Workforce Workshop (MAGIP 2015)  
The Location Advantage (Esri 2015)  
ArcGIS Pro: An Introduction (MAGIP 2014)  
Creating Story Maps and Open Data sites, using ArcGIS Online (MAGIP 2014)  
Leveraging the Power of your ArcGIS Online subscription (MAGIP 2014)  
ArcGIS Online "Unconference" (MAGIP 2014)  
Managing Lidar Data using Terrain Datasets (ESRI 2014)  
Managing Lidar Data using Mosaic Datasets (ESRI 2014)  
Managing Lidar Data Using LAS Datasets (ESRI 2014)  
Managing Lidar Data in ArcGIS 10 (ESRI 2014)  
Creating 3D data using ArcGIS (ESRI 2014)  
3D Visualization Techniques Using ArcGIS 10 (ESRI 2014)  
3D Analysis of Surfaces and Features Using ArcGIS (ESRI 2014)  
Creating and Integration Data for Natural Resource Applications (ESRI 2014)  
Regression analysis Using ArcGIS (ESRI 2014)  
Introduction to Surface Modeling using ArcGIS (ESRI 2014)  
Building Models for GIS Analysis Using ArcGIS (ESRI 2014)  
Advanced Techniques for Cartographic Representations (ESRI 2014)  
Working with Annotation in ArcGIS (ESRI 2014)  
Wilderness First Aid & CPR (American Red Cross 2013)  
Minnesota Dept. Natural Resources Boat Training (2013)  
Minnesota Dept. Natural Resources Defensive Driving (2013)  
Motorboat Operator Certification Course (National Park Service 2011)  
PADI Scuba certification (University Of Wisconsin-Stout 2011)  
Displaying Raster Data Using ArcGIS 10 (ESRI 2012)  
Working with Geodatabase Domains and Subtypes (ESRI 2013)  
Six "Getting Started" & "Basics of" ArcGIS certifications (ESRI 2012)