

Hannah J. Veldhuizen

4065 NHB, 1301 W Green St.
Urbana, IL 61801
812-870-4169
hjb3@illinois.edu

EDUCATION

University of Illinois, Urbana, IL August 2020 - Present
M.S. in Geology
Advisor: Thomas Johnson

Indiana State University, Terre Haute, IN August 2016 - May 2020
B.S. in Geology
GPA 3.80/4.00

- Minors in Chemistry and Geochemistry

Illinois State University, Normal, IL Summer 2019
Geology Field Camp
GPA 4.00/4.00

AWARDS AND SCHOLARSHIPS

Evergreen Endowed Fellowship August 2020 – May 2021
University of Illinois at Urbana-Champaign

- Awarded to students who have an interest in developing an interdisciplinary background and think about how geoscience knowledge can be used to address problems facing society
- Provided support for one year of graduate study

May Family Fellowship August 2020 – May 2021
University of Illinois at Urbana-Champaign

- Awarded to students studying aspects of geochemistry
- Provided support for one year of graduate study

College of Arts and Sciences Outstanding Senior May 2020
Indiana State University

- Awarded to a graduating senior with a dedication and commitment to their undergraduate studies

NAGT/USGS Cooperative Summer Field Training Program Nominee May 2020

- Students nominated by field camp director are invited to apply and students are then matched with selected USGS projects

Indiana Space Grant Consortium Undergraduate Scholarship August 2019

- Awarded to undergraduate students attending INSGC affiliate institutions with at least a 2.5 GPA and are pursuing a STEM major

AAPG Foundation's L. Austin Weeks Undergraduate Grant May 2019

- Awarded to undergraduate students studying a field of geoscience full-time at a four-year accredited college or university

Blackwell Scholars – Geology May 2019
Indiana State University

- Awarded to geoscience students who have demonstrated leadership skills and quality of character

Donald G. Brown Endowed Scholarship May 2019
Indiana State University

- Awarded to students pursuing a major in Geology who have applied themselves academically and are sincere in their academic endeavors

Geology Field Camp Scholarship May 2019
Indiana State University

- Awarded to a student to support geology field camp costs

Outstanding Undergraduate Research May 2019
Indiana State University

- Given to an active participant in research with a record of sustained commitment to developing research skills and knowledge under the supervision of a faculty mentor

Richard E. Kirk Memorial Scholarship May 2018
Indiana State University

- Awarded to a deserving junior in Geology with a minimum of a 3.0 GPA

Undergraduate Student Involvement Award May 2018
Indiana State University

- Given to a student who engages directly with those in the department while assisting with many activities

Academic Merit Scholarship August 2016 – May 2020
Indiana State University

- Awarded to incoming freshman who have a cumulative grade point average of at least 3.25 on a 4.0 scale and completed a minimum of Core 40

EXPERIENCE

Organic Chemistry Laboratory Assistant August 2019 - May 2020
Indiana State University, Terre Haute, IN

- Assisted professor with maintaining organic lab; provided advice and answers to student questions

Summer Undergraduate Research Experience Intern May 2019 - August 2019
Indiana State University, Terre Haute, IN

- Analyzed fish digestive system samples for microplastics using optical identification

Mineralogy and Petrology Teaching Assistant August 2018 - May 2019
Indiana State University, Terre Haute, IN

- Assisted in preparation and oversight of mineralogy/petrology labs; lead student help sessions

Summer Undergraduate Research Experience Intern

May 2018 - August 2018

Indiana State University, Terre Haute, IN

- Collected and analyzed sediment and water samples using XRF and ICP-OES

Aquarium Educational Outreach Assistant

January 2018 - May 2020

Indiana State University, Terre Haute, IN

- Organized community outreach activities; maintained health of saltwater aquarium and terrarium

Biogeochemistry Research Assistant

September 2017 - May 2020

Indiana State University, Terre Haute, IN

- Assisted faculty with sample preparation and analysis; organized and evaluated data for multiple projects

RESEARCH GRANTS

Phytoremediation of metal-contaminated soil by *sorghastrum nutans* and arbuscular mycorrhizal fungi, H. Veldhuizen (Lead-PI), J.C. Latimer (Co-PI), Geological Society of America North-Central Section Undergraduate Student Research Grant, \$350, (2019).

CONFERENCE PRESENTATIONS

Veldhuizen, H., Latimer, J.C., Stone, J., 2020. Microplastics ingested by planktivores in the Wabash River from 1963 to 2010, Posters on the Hill, Washington, D.C.

Steorts, E. B., Smith, B., Toth, R., **Veldhuizen, H.**, Brown, K., Latimer, J.C., 2019. Foundry waste: a profile of heavy metal contamination in Reedsville, WV. Geological Society of America Annual Meeting, Phoenix, AZ.

Veldhuizen, H., Latimer, J.C., 2019. Phytoremediation of metal-contaminated soil by *sorghastrum nutans* and arbuscular mycorrhizal fungi. Geological Society of America Annual Meeting, Phoenix, AZ.

Veldhuizen, H., Maupin, A., Johnson, H., Latimer, J.C., Stone, J., 2019. Microplastics ingested by freshwater planktivores in the Wabash River from 1965-2010, Wabash Symposium, Terre Haute, IN.

Lower, B., Latimer, J.C., **Veldhuizen, H.**, 2019. Soil lead bioavailability in an urban community severely impacted by legacy pollution. Indiana Academy of Sciences Annual Meeting, Indianapolis, IN

Veldhuizen, H., Maupin, A., Johnson, H., Stone, J., Latimer, J.C., 2019. Introduction and abundance of microplastics ingested by freshwater fish in the Wabash River from 1960-2010, National Conference on Undergraduate Research, Kennesaw, GA.

Latimer, J.C., Pigg, J., Meunier, C., **Veldhuizen, H.J.**, Lower, B.S., Foxx, H., 2018. Lead bioavailability of urban soils estimated using a simulated gastric solution: Examples from Terre Haute, Indianapolis, and East Chicago, Geological Society of America Annual Meeting, Indianapolis, IN.

Matthews, B., **Veldhuizen, H.J.**, Latimer, J.C., Speer, J.H., 2018. Sediment and water quality determination of the Otter Creek Watershed, Geological Society of America Annual Meeting, Indianapolis, IN.

Rex, N., Brown, K., **Veldhuizen, H.**, Latimer, J.C., 2018. Tracking heavy metal contaminants along the Monongahela River, Morgantown, West Virginia, Geological Society of America Annual Meeting, Indianapolis, IN. Best Student Poster Presentation Award - Environmental and Engineering Geology Division.

Schmitt, R., Brown, K., **Veldhuizen, H.**, Latimer, J.C., 2018. The distribution and concentration of heavy metal contaminants among public playgrounds in Morgantown, WV, Geological Society of America Annual Meeting, Indianapolis, IN.

FIELD AND TECHNICAL SKILLS

- Operated ICP-OES for sediment, soil, and plant tissue samples
- Conducted microwave digestion of plant tissue and soil for ICP preparation
- Identified elemental composition of sediments and soils using XRF
- Analyzed for phosphorous in water samples using an UV-VIS Spectrophotometer
- Imaged microplastics on SEM
- Measured nitrate, ammonia, pH, and dissolved oxygen of streams with YSI meter
- Used flow meter to measure water velocity in streams
- Collected water samples for *E. coli* testing using Coliscan method
- Utilized ArcGIS to map metal and *E. coli* contamination in waterways
- Utilized ACD/1D NMR Processor to process and assign a ¹H NMR or ¹³C spectrum
- Operated Thermo-Nicolet iS10 Fourier Transform Infrared spectrometer to identify plastic polymers
- Matlab
- CrunchFlow

ORGANIZATIONS AND CLUBS

- | | |
|---|----------------|
| • State Environmental Science Club, President, Indiana State University | 2019 - 2020 |
| • Geological Society of America, Member | 2018 - Present |
| • American Institute of Professional Geologists, Member | 2018 - Present |

COMMUNITY INVOLVEMENT

- | | |
|--|-----------|
| • Coordinator, Library Family Learning Day for Wabashiki Turtle Rescue | 2019 |
| • Coordinator, Green the Festival Recycling Event at Blues at the Crossroads | 2019 |
| • Volunteer, Adopt-a-Highway Clean Up | 2019 |
| • Volunteer, Hoosier Riverwatch | 2018-2019 |
| • Volunteer, Ouabache Land Conservancy | 2018-2019 |
| • Volunteer, NAACP Indiana's "Our Community Scientists" initiative | 2017 |