

# Curriculum Vitae

University of Michigan School for Environment and Sustainability Doctoral Program

Isabella Shehab

U-M ID: 89350528

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## Isabella Juliet Shehab

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### EDUCATION

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**Master of Landscape Architecture (MLA)** **April 2023**

**Master of Science (MS) in Ecosystem Science and Management** **April 2023**

University of Michigan, School for Environment and Sustainability (SEAS); Ann Arbor, Michigan

GPA: 4.0/4.0

**Bachelor of Science (BS) in Global Resource Systems** **May 2020**

Iowa State University, College of Agriculture and Life Sciences; Ames, Iowa

Minors: Sustainability, Horticulture, Spanish, Animal Science

GPA: 3.95/4.0

### RESEARCH EXPERIENCE

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**Landscape Ecology, Perception, and Design Lab Research Assistant** **Jan 2022-Present**

University of Michigan SEAS; Ann Arbor, MI

- Identified a gap in the literature and reviewed and synthesized existing research pertaining to urban greening interventions and human well-being impacts
- Analyzed impacts of household flooding on Detroit residents through mixed-effects modeling in R and am interpreting results through the preparation of a scholarly manuscript for publication
- Collaborate with Professor Joan Nassauer and teammates in public health and sociology to build upon the lab's existing Neighborhood, Environment, and Water research collaborations for Green Infrastructure (NEW-GI) project data sets (<https://www.joan-nassauer.com/new-gi>)

**Landscape, Watershed, and Data Science Lab Research Assistant** **June 2021-Dec 2021**

University of Michigan SEAS; Ann Arbor, MI

- Reviewed and synthesized literature on watershed-scale water quality management practices in relation to climate change and urban form in collaboration with Professor Runzi Wang and team
- Edited papers in preparation for publication, participating in entire publication process

**Global Resource Systems Independent Researcher** **Aug 2019-Dec 2019**

Iowa State University; Ames, Iowa

- Conducted secondary research through a systematic literature review (~400 articles) on food production potential in select Canadian cities
- Synthesized results as my senior thesis and presented research to peers, faculty, and industry professionals

**Hansen Ruminant Nutrition Lab Research Assistant** **Dec 2016-Dec 2017**

Iowa State University; Ames, IA

- Collected and processed samples from sheep and cattle, prepared feed rations, and analyzed mineral concentrations in samples
- Kept lab organized and aided graduate students in sorting and analyzing data and interpreting results

## PUBLICATIONS

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### In Preparation:

**Shehab, I.**, Nassauer, J., Webster, N., Sampson, N., & Li, J. (n.d.). Impacts of mental health and household flooding on perceptions of vacant lot greening treatments in Detroit, Michigan. *Urban Forestry and Urban Greening*.

### Published:

Wang, R., Ma, Y., Zhao, G., Zhou, Y., **Shehab, I.**, & Burton, A. (2023). Investigating water quality sensitivity to climate variability and its influencing factors in four Lake Erie watersheds. *Journal of Environmental Management*.

Geissinger, M., Langer, M., **Shehab, I.**, and Westphal, A, with J. Thompson (2020). Societal Effects of Trees – Connecting The Dots. In D. Jahn (Ed.), *City of Des Moines Urban Forest Master Plan*. Available at: [https://www.dsm.city/departments/public\\_works-division/forestry/urban\\_forest\\_master\\_plan\\_chapters.php](https://www.dsm.city/departments/public_works-division/forestry/urban_forest_master_plan_chapters.php). Last accessed September 15, 2022.

## RESEARCH PRESENTATIONS & PROJECTS

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### Presentations:

*Mental Health and Flooding Experience Affect Perceptions of Green Stormwater Infrastructure Designs in Detroit*  
Council of Educators in Landscape Architecture Conference (San Antonio, Texas; March 2023)  
Advisor: Professor Joan Nassauer

*Bringing Life to Concrete Jungles: Food Production Goals in Canadian Cities*  
Global Resource Systems Senior Thesis Poster Presentation (Ames, Iowa; December 2019)  
Advisor: Professor Emily Zimmerman

*Expanding Pupils' Knowledge of Animal Husbandry Through Poultry Clubs at Primary Schools in Uganda*  
Norman Borlaug Student Poster Competition (Ames, Iowa; October 2018)  
Advisor: Professor Richard Schultz

*Implementing Principles of Community in the CALS Ambassador Program*  
North Central Association for Agricultural Educators (Fargo, North Dakota; October 2018)  
Advisor: Professor Elizabeth Foreman  
Received Distinguished Innovative Idea Poster Award

### Projects:

*Exploring the Impact of Urban Greening Interventions on Human Well-Being*  
EAS 501.098 Aesthetics and Human Behavior Seminar Term Paper (Spring 2022)  
Advisor: Professor Joan Nassauer

*Conducting a Case Study of the Sheffield, UK's Grey to Green Project: Exploring Functionality and Historical Inspiration*  
EAS 503 Sustainable Sites and Historical Precedents Term Project (Spring 2022)  
Advisor: Professor Stanton Jones

*Where the Wild Things Could Be: Connecting the Public with Ways to Preserve, Conserve, and Restore Iowa's Native Prairies, Forests, and Wetlands (<https://prezi.com/view/4WDAz94b04ndW6CBOyNI/>)*  
NREM 490B Urban Biodiversity Final Team Project (Spring 2020)  
Advisor: Professor Jan Thompson

*Kinosol (non-profit centered around solar powered food dehydrators) Marketing Plan*

Global Resource Systems Senior Capstone Project (Spring 2020)

Advisor: Professor Emily Zimmerman

*Bringing Life to Concrete Jungles: Food Production Goals in Canadian Cities*

Global Resource Systems Senior Thesis (Fall 2019)

Advisor: Professor Emily Zimmerman

## TEACHING EXPERIENCE

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### **Interpreting Research in Conservation Ecology Graduate Student Instructor**

**Jan 2023-Apr 2023**

University of Michigan SEAS; Ann Arbor, Michigan

- Working with Professor Karen Alofs, evaluate and critique scientific writing and presentation skills of graduate students on topics related to the interpretation of ecological research for about 65 students
- Coordinate with seminar speakers and host lunchtime discussions

### **Plant Propagation Teaching Assistant**

**Jan 2020-May 2020**

Iowa State University Department of Horticulture; Ames, Iowa

- Working with Professor Grant Thompson, managed a lab of 20+ students; prepared materials, presented on key information related to plant physiology, demonstrated techniques, and aided students in propagating woody and herbaceous plants
- Taught in person for half a semester and quickly adapted class materials to be taught remotely due to the start of the COVID-19 pandemic

### **President's Leadership Class Senior Teaching Assistant**

**May 2019-May 2020**

Iowa State University; Ames, Iowa

- Working with ISU President Wendy Wintersteen, planned, led and taught weekly classes on leadership programming throughout the 2019-2020 academic year to 30 freshman
- Selected and invited unique speakers to share personal success stories and expertise and facilitated discussions

## AWARDS & FELLOWSHIPS

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|---|-------------------|
| Michigan Garden Club Scholarship (\$1,500)  | <b>2022</b>       |
| Landscape Architecture Foundation Kenneth R. Brooks MLA Research Scholarship (\$5,000)          | <b>2022</b>       |
| Michigan ASLA (American Society of Landscape Architects) Scholarship (\$2,500)                  | <b>2022</b>       |
| UM SEAS Honors Award - Women's National Michigan Farm and Garden Association Award (\$2,500)    | <b>2022</b>       |
| UM SEAS Academic Merit Fellowship (\$22,500)  | <b>2020-2022</b>  |
| UM SEAS Landscape Architecture Program Fellowship (\$32,500)                                    | <b>2020-2022</b>  |
| ISU College of Agriculture and Life Sciences Senior Award for Diversity and Inclusion Recipient | <b>2020</b>       |
| Iowa State University Presidential Leadership Scholarship                                       | <b>2016, 2017</b> |
| College of Agriculture & Life Sciences Dean's Leadership Scholarship                            | <b>2016, 2017</b> |
| International Baccalaureate Diploma Recipient   | <b>2016</b>       |

## PROFESSIONAL EXPERIENCE

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### **Landscape Nursery Retail Sales Associate**

**Apr 2021-Oct 2021**

Fraleighs Landscape Nursery; Dexter, Michigan

- Aided customers in selecting trees, shrubs, and herbaceous perennials, provided design suggestions, and taught about plant characteristics for both new and existing landscapes
- Monitored 650+ plant cultivars re. water, sunlight levels, pest control, weeding and fertilization and collaborated with retail team to select plants for order and propagation

**International Business Management Intern****May 2019-Aug 2019**

Cargill Protein; Wichita, Kansas

- Traveled to Queretaro, Mexico (4 weeks); Hong Kong, China (2 weeks); and Tokyo, Japan (2 weeks) to collect, analyze, and share information to guide marketing plans and strategy
- Examined attitudes surrounding sustainability, compared retail markets, and explored opportunities within value-added markets in each country

**ACADEMIC & COMMUNITY SERVICE**

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**Board of Directors Member****March 2021-Present**

Cass Community Social Services; Detroit, MI

- Advise this non-profit organization which seeks to provide resources and care to impoverished areas of Detroit in monthly board meetings
- Communicate with donors on behalf of the Real Estate Committee, demonstrating how their contributions can help the organization to acquire new properties, renovate or develop new spaces, and bring the future vision of the Cass Community campus to life

**Landscape Architecture Track Leader****May 2021-Present**

University of Michigan Master of Landscape Architecture Academic Program; Ann Arbor, MI

- Communicate with prospective and admitted students, offering insight and advice about student life on campus
- Represent the MLA community and advocate for student needs to SEAS staff and administration
- Collaborate with the student chapter of the American Society of Landscape Architecture to create events to foster a welcoming community

**Dean's Student Advisory Committee Representative****Aug 2018-May 2020**

Iowa State University College of Agriculture and Life Sciences; Ames, IA

- Ensured the needs of the student body were brought to the attention of the Dean and other important administrators within the college at various meetings throughout the year

**College of Agriculture and Life Sciences (CALS) Ambassador****Nov 2016-May 2020**

Iowa State University College of Agriculture and Life Sciences; Ames, IA

- Served on the Executive Officer Team for two years, oversaw the activities of six committees, prepared for organization-wide meetings and stepped in to run meetings as needed
- Interacted with prospective students and families in various ways (providing tours, participating in panels, and answering questions) to share about my experience at Iowa State

**Uganda Program Service Learner****May 2018-July 2018**

Iowa State University Uganda Program; Kamuli District, Uganda

- Worked collaboratively with teachers and administrators from primary schools in the Kamuli district to improve school garden projects and teach science and math to P5 and P6 students
- Collaborated with students from Makerere University (Kampala, Uganda) to improve existing poultry projects at two primary schools and visited many small farms in the area to learn about tropical agriculture and aid in the planting, management, and harvest of diverse tropical crops

**SKILLS**

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Software: R, ArcGIS, Adobe Creative Suite, AutoCAD, Rhino, SketchUp

Language Proficiency: English, Spanish (Con conversationally Fluent)