

# Gia Marie DeBartolo

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## EDUCATION

### **The University of Iowa**

***Anticipated May 2019***

*Master of Science, Urban & Regional Planning*

*Concentration in Environmental Planning and Geographic Information Systems (GIS)*

### **The University of Iowa**

***May 2017***

*Bachelor of Arts, Environmental Science*

## SOFTWARE PROFICIENCIES AND SKILLS

- |                        |                   |              |
|------------------------|-------------------|--------------|
| • ArcGIS               | • HEC-HMS         | • Openwind   |
| • Adobe Illustrator    | • LIDAR Analyst   | • QGIS       |
| • Adobe InDesign       | • Microsoft Excel | • Stata      |
| • Environmental Policy | • Microsoft Word  | • Win-Situ 5 |

## PROFESSIONAL EXPERIENCE

### **Linn County Wind Farm Project – Team Member**

***August 2018 – Present***

*Iowa Initiative for Sustainable Communities*

*School of Urban & Regional Planning, The University of Iowa*

- Collaborates with three other graduate students in capstone project that seeks to provide Linn County administrators the resources to effectively evaluate conditional use permits for utility-scale wind development.
- Performs series of spatial analyses using ArcGIS and Openwind software to determine ideal locations for utility-scale wind development in Linn County with consideration for regulatory, economic, and compatibility constraints.

### **Water Quality Intern**

***May 2018 – August 2018***

*DuPage County, Department of Stormwater Management*

- Assisted with the County's Illicit Discharge Detection and Elimination Project (IDDE) by performing site visits to stormwater outfalls to chemically test water for ammonia, fluoride, surfactants, specific conductance, and pH.
- Coordinated the deployment, maintenance, calibration, and monitoring of Sonde water quality probes.
- Created inventory of approximately 300 detention basins throughout the county to determine overall water quality benefit and retrofit potential.

**Graduate Research Assistant****January 2018 – May 2018***School of Urban & Regional Planning, The University of Iowa*

- Facilitated research project seeking to quantify potential futures for the agricultural Midwestern United States given changes in climate, land management practices, and local governance.
- Synthesized the Land Transformation Model (LTM) with Geographic information Systems (GIS) to forecast changes in land use with high spatial and temporal resolution.
- Performed statistical data analysis to model and quantify the impact of integrated water resource management governance structures on water quality in managed landscapes.

**Geological Lab Intern****August 2016 – February 2017***Iowa Geological Survey, IIHR – Hydroscience & Engineering*

- Obtained rock core samples from well drillers across the state of Iowa.
- Evaluated collected samples for geologic composition.
- Created record of hydrogeological data using ArcGIS and the Iowa Geological Survey's GeoSam database.

**Stormwater Management Systems Intern****January 2015 – May 2017***Department of Earth & Environmental Science, The University of Iowa*

- Collected data from permeable pavement systems using In-situ Troll 100 transducers and Win-situ software.
- Analyzed data using Microsoft Excel to assess overall hydrologic efficacy of permeable pavement systems under review.

**ACTIVITIES & AFFILIATIONS****Sustainability Chair****August 2018 – Present***School of Urban & Regional Planning Student Association***Student Member****September 2017 - Present***American Planning Association*