MICHAEL AITCHISON
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Website: https://maitchis.github.io/michael-aitchison
Iowa City, IA | (319) 541-8258

EDUCATION

University of Iowa — Iowa City, Iowa
Graduate Certificate in Geoinformatics — *December 2021*
GPA: 4.05

Indiana University, Paul H. O'Neill School of Public and Environmental Affairs — Bloomington, Indiana
Master of Public Affairs — *December 2017*
Concentration: Sustainability and Sustainable Development
GPA: 3.76

Western Illinois University — Macomb, Illinois
Bachelor of Business – Economics, Summa Cum Laude — *May 2015*
Emphases: Public Policy, Quantitative Economics
GPA: 3.99

TECHNICAL SKILLS

- ArcGIS Desktop software suite
- ArcGIS Pro
- ArcGIS Collector mobile app
- ERDAS IMAGINE
- Grant writing process
- HTML/CSS
- Observable Notebooks
- PHP
- Python
- R and Rstudio
- SQL (PostgreSQL)
- QGIS

WORK EXPERIENCE

URP 4262 Transportation Demand Analysis, Client – City of Waterloo, IA — Iowa City, Iowa
Consulting Researcher (Student) — *January 2021 – May 2021*

- Researched case studies to provide the client with advice on repurposing underutilized on-street parking
- Processed parking space inventory and parking space utilization survey data using ArcGIS Pro
- Created maps to allow project stakeholders to visualize and understand geospatial data

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Indiana University, Landscape Services Bloomington, Indiana
Tree Inventory Assistant *February 2018 – July 2018*

- Conducted research for and authored the report "Asian Longhorned Beetle Risk Assessment for the Indiana University Bloomington Campus"
- Created the IU Bloomington waste bin inventory system using ArcGIS to increase efficiency of campus waste collection and facilitate planning of new waste bin locations
- Collaborated with team members to create the IU Sustainable Landscape Plan

Tree Inventory Internship *May 2017 – August 2017*

- Updated and expanded the IU Bloomington campus tree inventory system with the ArcGIS Collector app to make the available data more comprehensive and current
- Identified tree safety issues such as broken/dangling limbs (posing potential hazards to students) and health issues such as girdling roots, diseases, and nutrient deficiencies to refer to university arborists
- Created a cartographical and statistical report of the condition of campus trees using Microsoft Excel, ArcGIS, and the IU Bloomington campus tree inventory system to provide useful information to decision makers

Capstone Project for MPA Program, Client – City of Sanibel, FL Bloomington, Indiana
Consulting Researcher (Student) *August 2017 – December 2017*

- Co-authored "Ecological and Economic Benefits of the Comprehensive Everglades Restoration Plan for the City of Sanibel and the Coastal Waters of Lee County, FL"
- Prepared an overall cost-benefit analysis from the perspective of Sanibel, FL and Lee County, FL of certain Everglades restoration efforts to inform community stakeholders
- Used ArcGIS and municipal property value data in combination with estimated local water quality changes to predict average changes to property values within Sanibel, FL resulting from the same Everglades restoration efforts
- Communicated to colleagues the economic analyses and conclusions relevant to the overall report
- Prepared, organized, and delivered teleconference presentations reporting team progress and findings to the client

Indiana University Bloomington, Indiana
Teaching Assistant: Public Finance and Budgeting *August 2016 – December 2017*
Teaching Assistant: Case Studies for Policy Analysis *August 2015 – May 2016*

- Tutored and mentored undergraduate and graduate students to aid them in achieving their academic and professional goals
- Assisted in preparing lecture materials (Excel and PowerPoint files) using federal budget sources (i.e. Congressional Budget Office and U.S. Treasury)
- Coordinated and administered course material review sessions prior to exams
- Graded student assignments and exams