Saint Mary's University Update

Southeast Minnesota GIS User Group

June 1, 2023

Saint Mary's University of MINNESOTA

Saint Mary's University of Minnesota

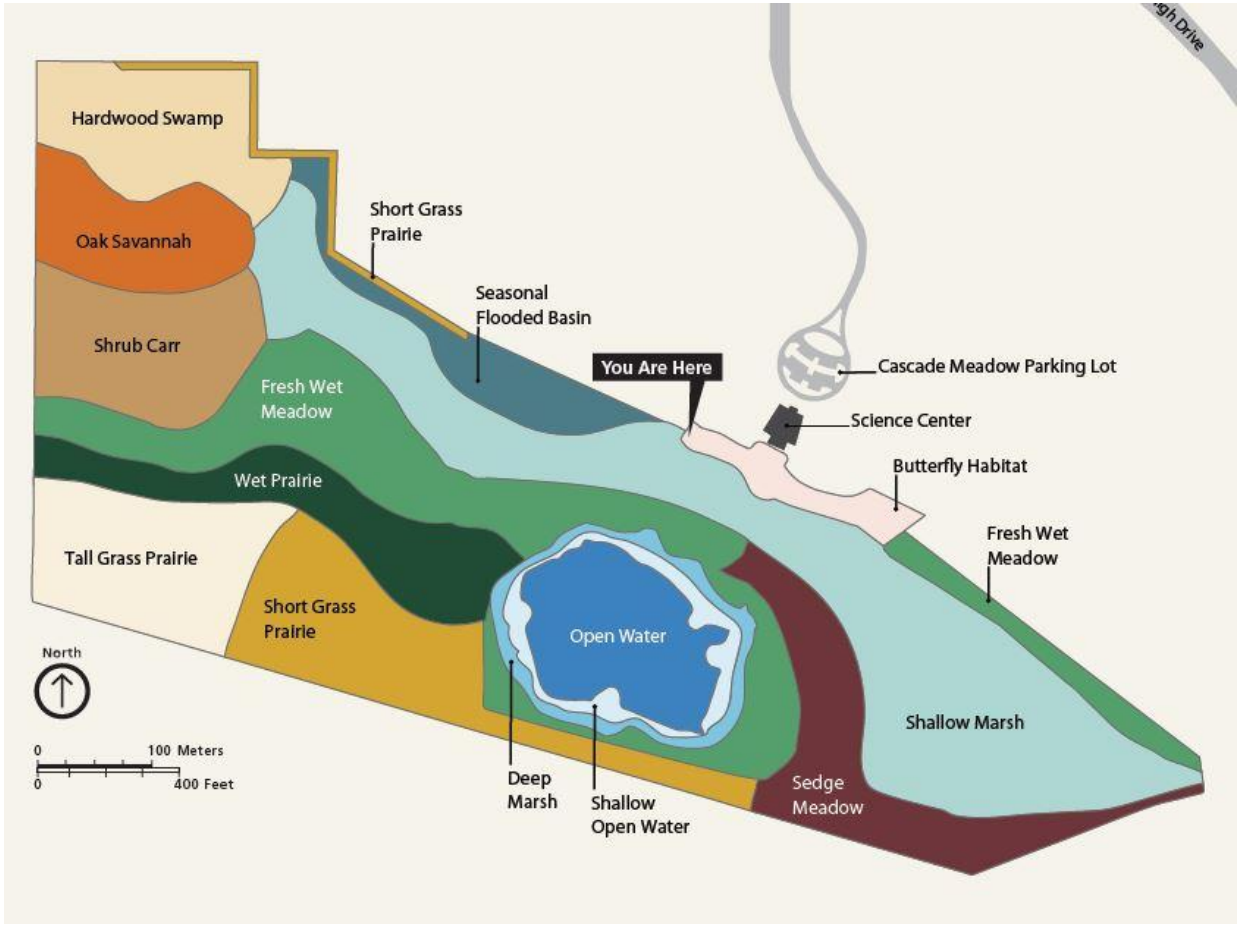
Rochester Campus

Rochester Campus

- 100 acre site
- 16,000-square-foot, LEED® Platinum, environmental science center
- Acquired by Saint Mary's in 2015

Rochester Campus

- 7 wetland types & 3 upland (dry) habitats comprise 90 acres of natural areas
- We still refer to the wetlands/prairie areas as Cascade Meadow Wetlands and Environmental Science Center



Rochester Campus

- 10,000-square-foot addition completed in 2018
- Built in support of the Physician Assistant (PA) Program
  - 3 years in Winona and 2 years in Rochester
  - In cooperation with the Mayo Clinic School of Health Sciences

Rochester Campus Programs

- Masters in Counseling and Psychological Services
- Doctorate in Leadership
- MBA
- Masters in Teaching and Learning

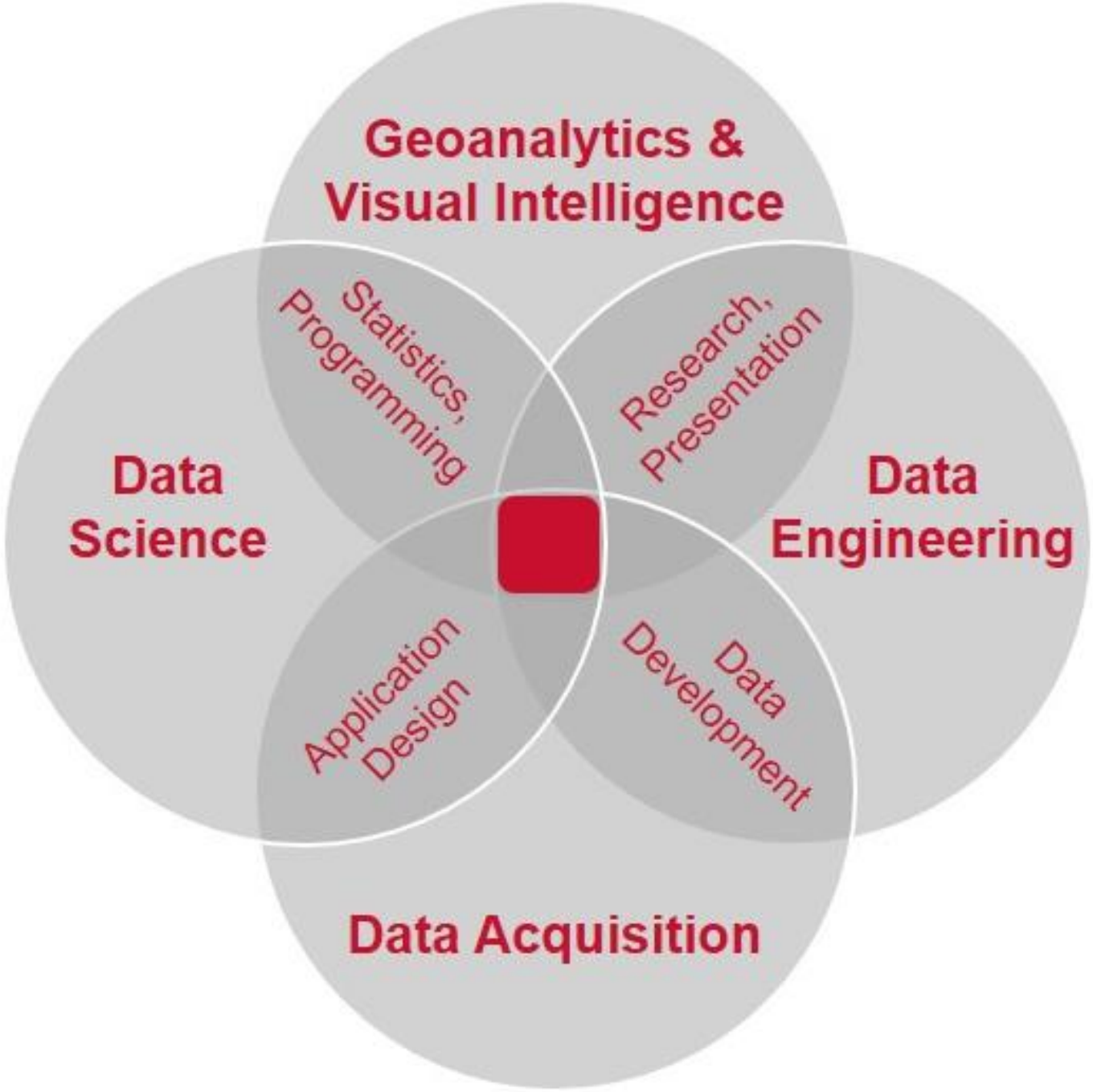
M.S. in Data Intelligence and GeoAnalytics (ie. MS DIGA)

Revision from M.S. in Geographic Information Science

GIS is Often Missing from the Job Title

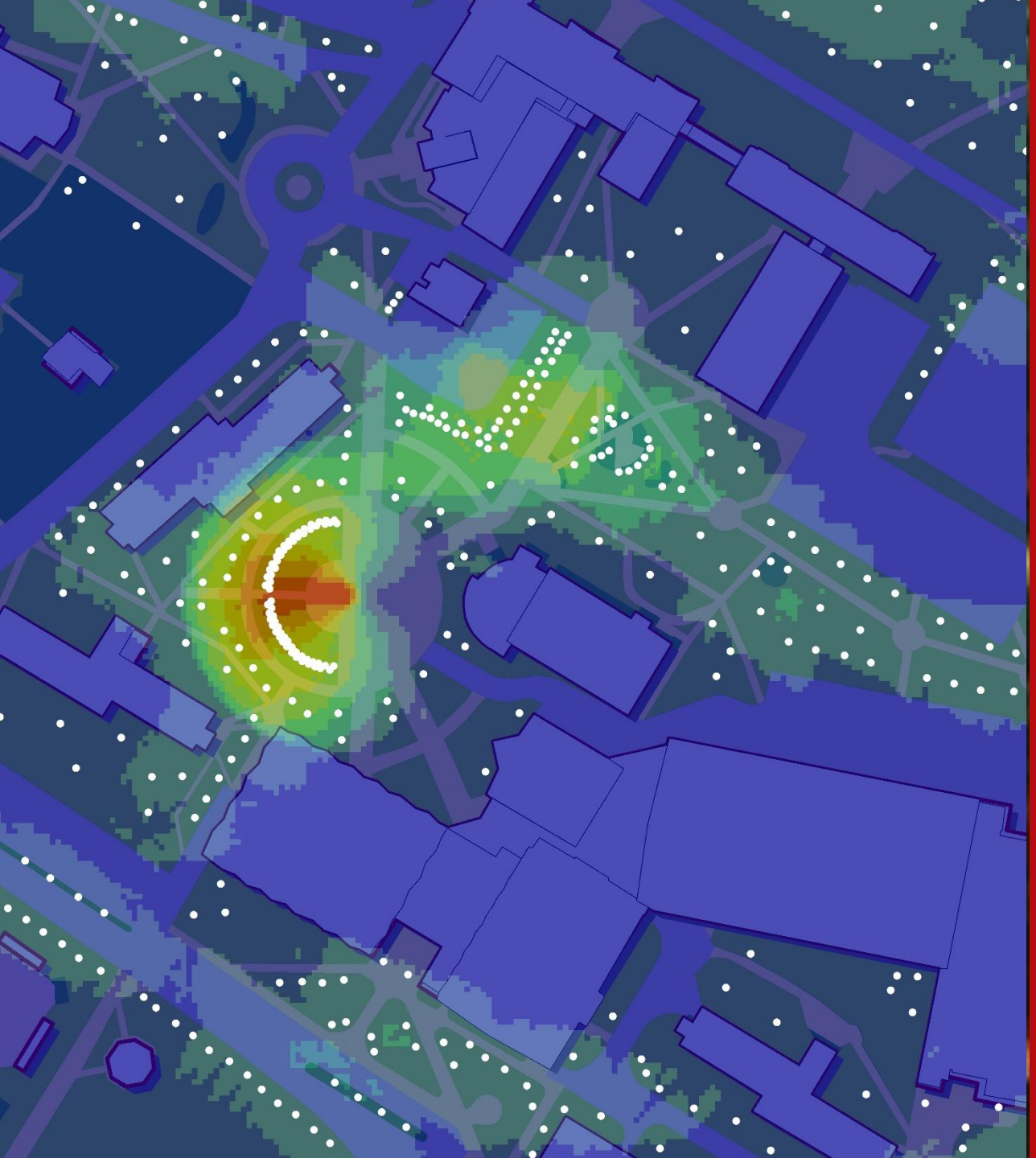
- Public Safety Applications Supervisor
- Software Engineer
- Analytic Methodologist
- Operations Workflow Coordinator
- Emergency Management & Business Continuity Coordinator
- Investigative Analyst
- Senior Permitting Manager
- Strategic Advisor
- Director of Research & New Product Development
- Research Analyst
- Development Program Lead

New degree name reflects broader base of skills and application areas



M.S. Data Intelligence & GeoAnalytics

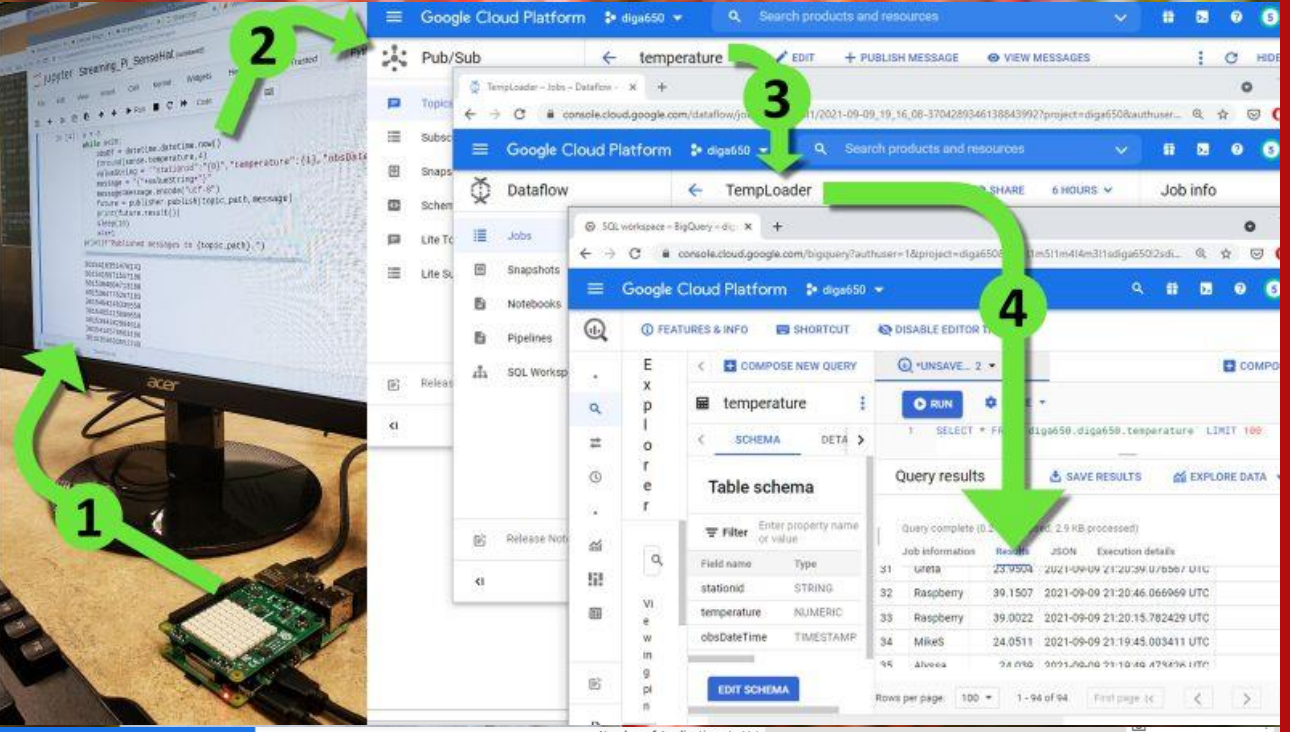
- 36 credits (12 x 3 credit courses)
- 8 week courses (accelerated)
- Online instruction; virtual interaction
- 2 year completion is typical; 12 month (one year) accelerated option is also a great option

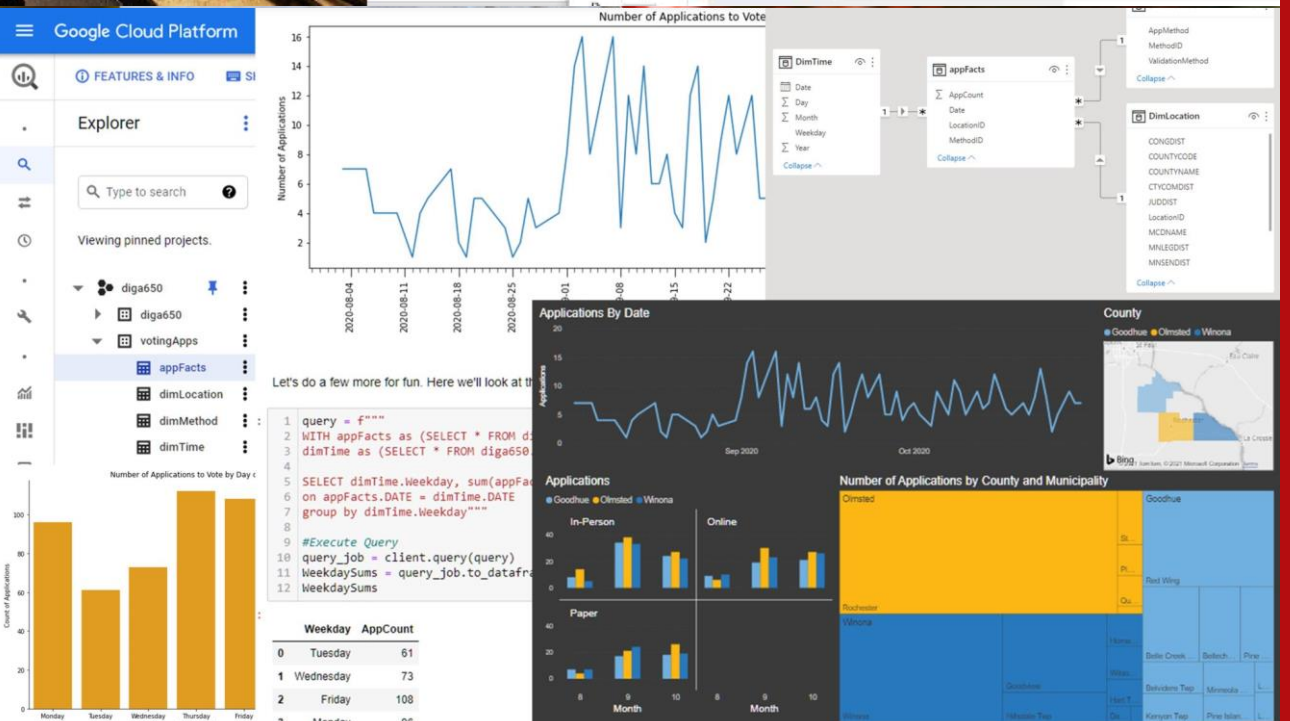


Graduate Certificates

GIS Certificate

- 15 credits (5 x 3 credit courses)
- Focus on GIS technology skills
- Credits count towards M.S. DIGA

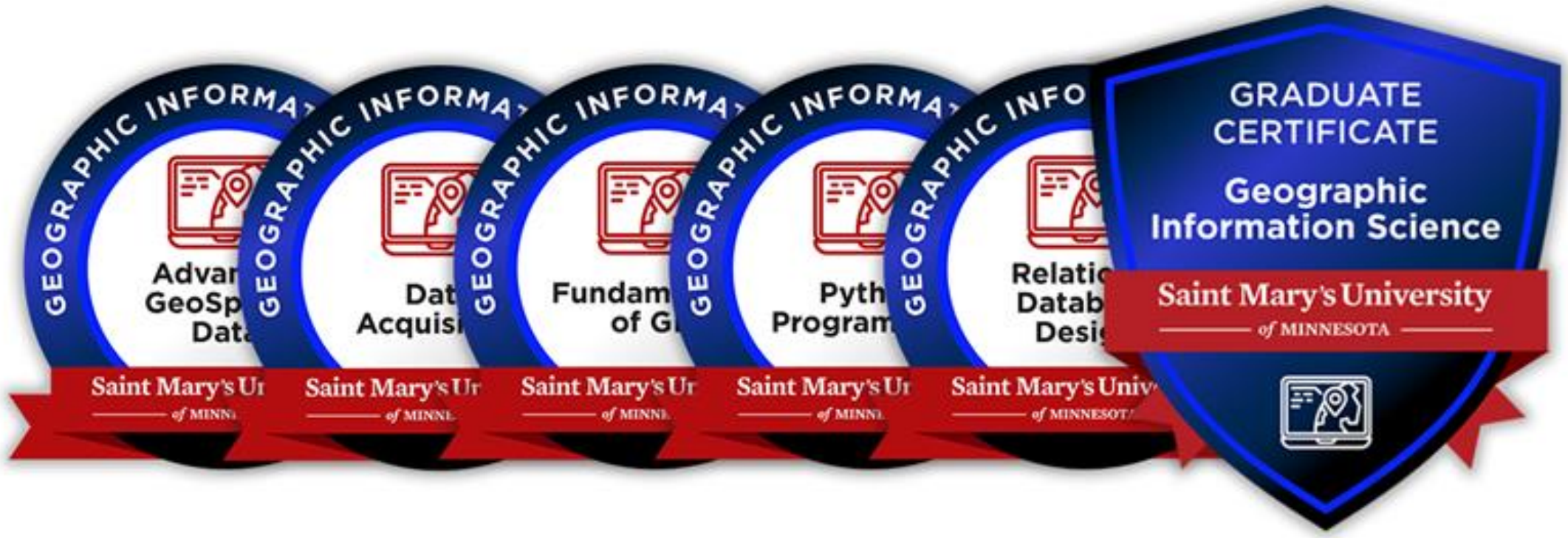




Graduate Certificates

Data Engineering Certificate

- 15 credits (5 x 3 credit courses)
- Focus on data development, processing, and visualization
- Credits count towards M.S. DIGA



Stackable Credentials

Digital Badges

- Certify course completion
- Stack into certificate
- Online promotion (e.g., LinkedIn)

Saint Mary's GeoSpatial Services continues work with tribes

lacrossetribune.com • 3 min read

Campus Connection: GSS at Saint Mary's garners 99% placement rate for student workers

winonadailynews.com • 3 min read

Work Experience

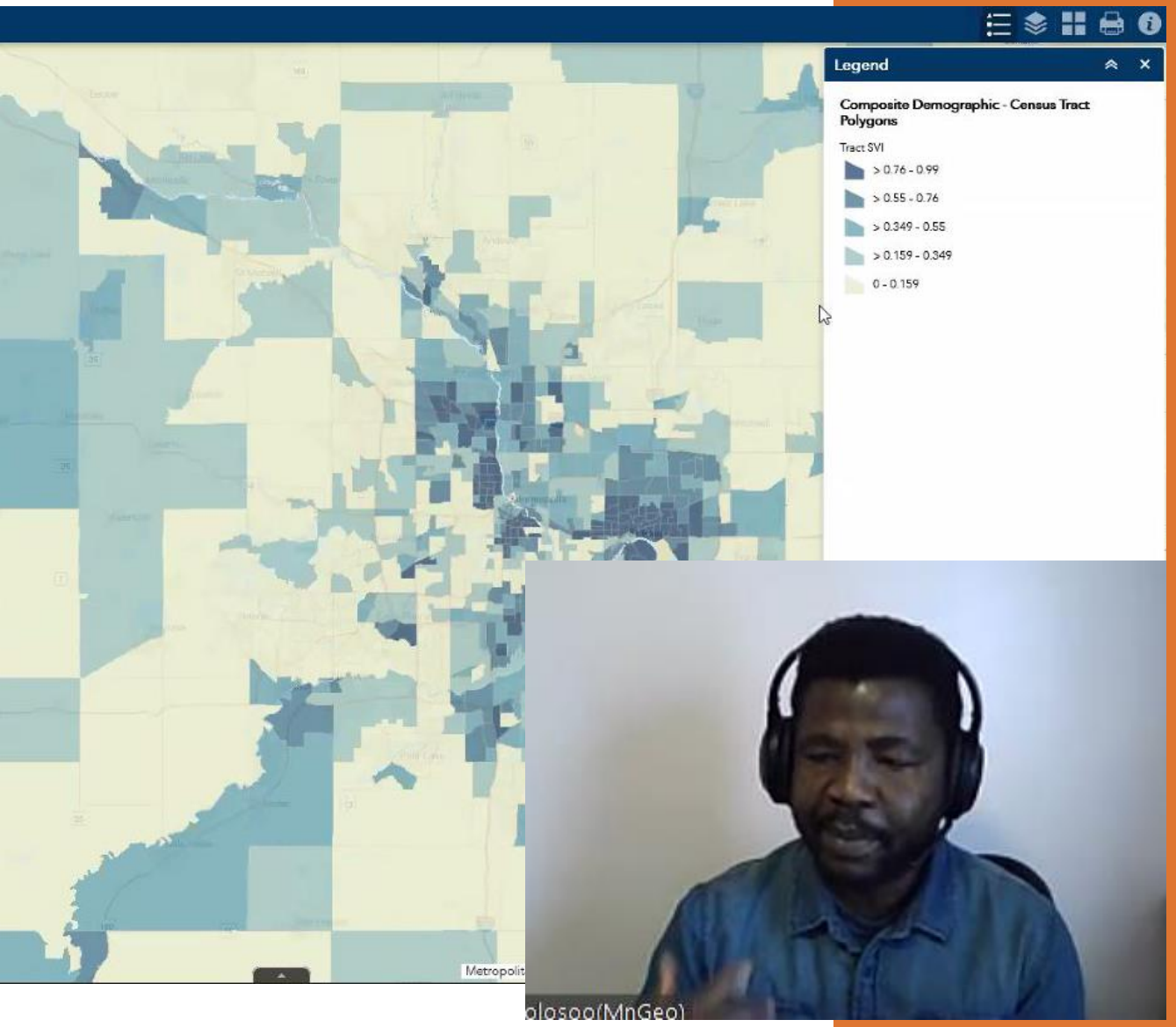
GeoSpatial Services (GSS)

- Project Center
- Integrates professional services & academic apprenticeships
- National Wetland Inventory, National Hydrography Dataset, Natural Resource Condition Assessments

Alumni Updates

Where are they now?

- Newsletter Series featuring alumni and current students (Sample)
- Usually create two newsletters a year (via linkedin mostly now)



State Government

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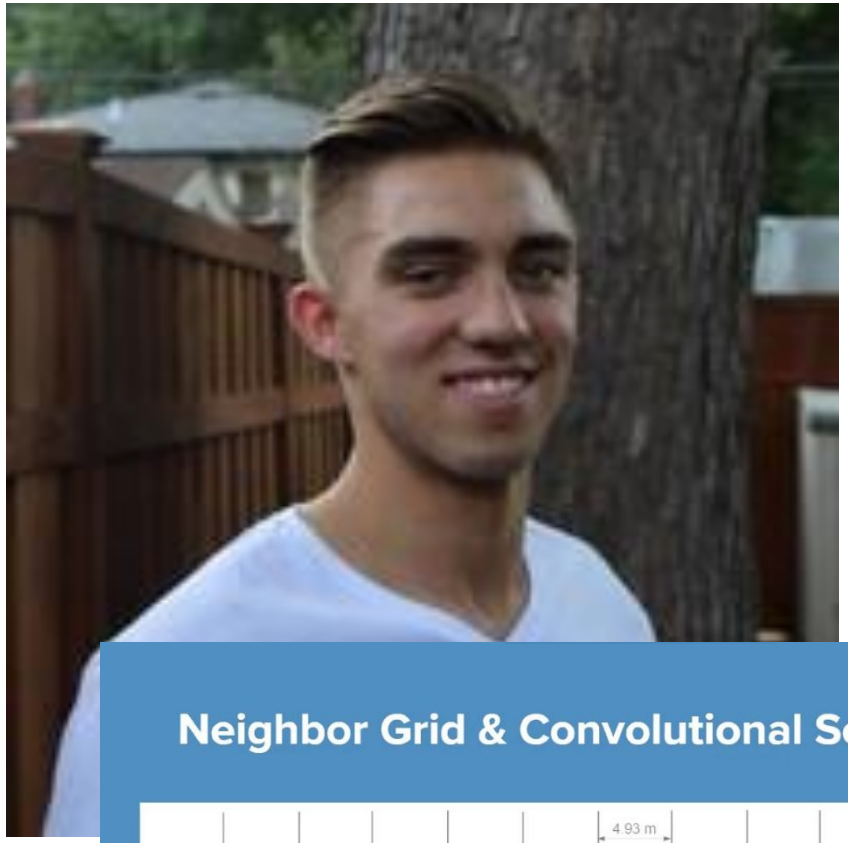
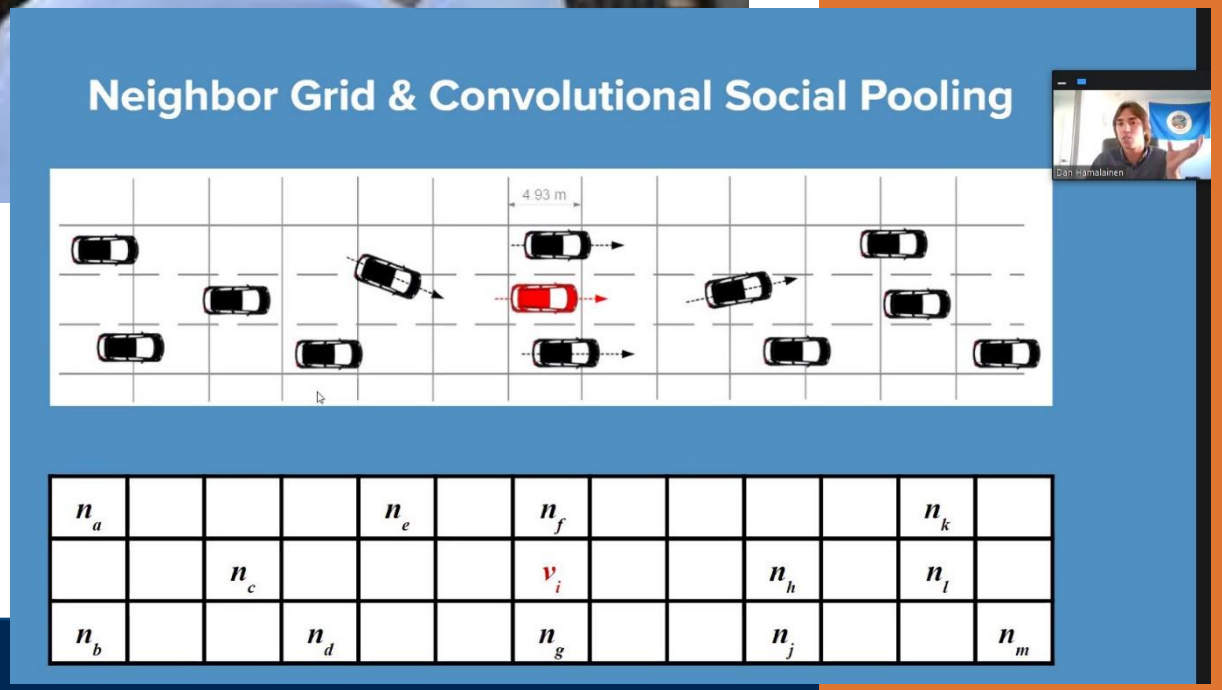
- Minnesota IT Services
- Active in Covid-19 response
- Vaccine deserts, Social vulnerability





Consulting

Daniel Hamalainen

- JR. GIS Analyst at Evari GIS Consulting, Inc. In San Diego, CA
- Municipal GIS applications including planning, traffic, street lighting, infrastructure, utilities, energy, AEC and asset management projects.

Energy

Cristina Lopez Barrios

- Senior GIS Programmer Analyst for PG&E
- Gas Transmission Integrity Management Team - promotes safety and risk mitigation along pipelines
- Develops models and automated workflows for data analytics and decision making

Engineering

Tyler Danielson

- GIS Project Manager at Bolton & Menk, Inc

Emergency Response and Regional Planning

Priyanka Chakrabarti

- Former GIS Analyst for the New South Wales Rural Fire Service
- Senior GIS Analyst at New South Wales Department of Planning, Industry, and Environment

Opportunities to Get Involved?

R&D | Grant Opportunities

Career Pathways and Internships

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