

Bobby Oliver, GISP

Lakeland Community College | Department of Geography and Geospatial Technology
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Education

- M.A., Geography and Planning; University of Akron, 2007.
- B.S., Geographic Information Science, University of Akron, Summa Cum Laude, 2004.
- Certificate, Leadership Academy, Urban and Regional Information System Associations (URISA), 2010.
- Certificate, Research Training, Libraries & Information Services, National Geographic Society, 2005.
- Certificate, Environmental Studies, University of Akron, 2004.
- Certificate, Geographic Information System & Cartography, University of Akron, 2004.

Professional Credentials

- Part 107 Remote Pilot UAS Certification, Federal Aviation Administration, certification number 4314035, date certified, 8/1/2019.
- Certified Geographic Information Systems Professional (GISP), granted by GIS Certification Institute (GISCI), certification number 63200, date certified, 1/5/2012.

Academic Experience

Associate Professor, Department of Geography & Geospatial Technology, Lakeland Community College. 2015 to present.

- GEOG 1400 – Mapping Technologies
- GEOG 1500 – Human Geography
- GEOG 1550 – Physical and Environmental Geography
- GEOG 1600 – World Regional Geography
- GEOG 1700 – Map Design and Interpretation
- GEOG 2700 – Introduction to Geographic Information Science
- GEOG 2710 – Data Acquisition and Management
- GEOG 2750 – Spatial Analysis and Modeling
- GEOG 2760 – Project Management for Geospatial Technology

Adjunct Instructor, Department of Geography & Geospatial Technology, Lakeland Community College. 2011 to 2015.

- GEOG 1700 – Map Design and Interpretation
- GEOG 2700 – Introduction to Geographic Information Science
- GEOG 2710 – Data Acquisition and Management

Adjunct Instructor, Department of Intelligence, Mercyhurst University, January 2014.

- DIA 300 – Map Design and Interpretation for J term (3 credit course for 3-week course)

GIS Work Experience

GIS Manager

- Planning Department, Lake Metroparks, October 2007 to August 2015. Implemented Lake Metroparks GIS development plan by overseeing all GIS operations and resources and provided direct supervision for all activities associated with Lake Metroparks GIS. Designed, developed and deployed an enterprise GIS system including database creation, GIS server management, and web application. Conducted spatial analysis and spatial programming for all GIS projects. Managed and maintained GIS licensing for ESRI desktop, mobile, online and server applications. Supervised all interns and volunteers on GIS, archiving and field projects.

Geospatial Lab Manager

- Department of Geography & Geospatial Technology, Lakeland Community College, October 2011 to present. Manage and maintain over \$50,000 of geospatial lab hardware, software, equipment, data and server resources. Manage and coordinate all GIS ESRI licensing for desktop, mobile, online and server applications with faculty and IT department. Manage student workers in the geospatial lab on hardware and software maintenance and GIS projects.

GIS Consultant

- Notre Dame College, August 2013 to April 2014. Provided professional services for setting up ESRI, ArcGIS software, data access for management and GPS recommendations.

GIS Consultant

- Flairsoft Ltd., Columbus, OH, 2007. Consulted on the development and applicability of GIS for utility and parcel management software applications. GIS liaison for GIS staff or department of utility customers.

GIS Consultant

- American Electric Power, Columbus, OH 2006 to 2007. Researched public records, data capture and provide a range of GIS data management and analysis skills for the property management division.

GIS Technician

- TechniGraphic Inc., Wooster, OH, 2005. Created and applied quality-controlled methods to remotely sensed data for National Geospatial-Intelligence Agency contracts.

Professional Achievement at Lakeland Community College

Geography and Geospatial Technology Department Chair

- Completed college and program assessment updates.
- Manage department budget.
- Coordinated adjunct faculty course and technology needs.
- Completed department course scheduling.
- Completed degree pathway application for A.A. in Geography.

- Completed Ohio Department of Higher Education Ohio, Transfer Assurance Guidelines (TAG) for GEOG 2700 Geographic Information Systems.
- Managed information and material for to market department and events.

Program Development

- Geospatial Advisory Board, 2018.
- GIS Transfer Assurance Guides (TAG) Panel Review, 2018.
- Ohio Guaranteed Transfer Pathway for Geography AA, 2018. Completed implementation pathway for an Associates of Arts in Geography.
- Geospatial Technology Skills Certificate, 2017.
- GIS Transfer Assurance Guides (TAG) Writing Panel, 2016.
- United States Geospatial Intelligence Foundation (USGIF) Geospatial Intelligence (GEOINT) Matrix, 2015. Designed a matrix from the USGIF body of knowledge to assess programs that are certified and those looking for certification.

Service Learning

- North Coast Drone Alliance (NORCODA) partnership provides field experience for students in the use of unmanned aerial systems data collection and processing. The data is being used to support smart campus management plan.
- Greater Cleveland Food Bank: Students in Data Acquisition and Management mapped data and created a Story Map to assist the foodbank in providing more interactive experience for their web users.
- City of Euclid, Ohio: This project completed by the Data Acquisition and Management Class, which assessed the city website for the incorporation of interactive maps and Story Maps.
- Geauga Park District (GPD) Collaboration Project, Chardon, OH. This project brings biology and geospatial students together to create a landcover dataset to look at developed land in the parks.
- Shore Cultural Centre, Euclid, OH. Geospatial students created information marketing material for this non-profit.
- Central Lake Erie Basin Collaborative (CLEB) Data Project, 2015 -2017. Students created a test method for creating riparian setbacks at a regional scale.
- Clean Marinas Ohio, 2016. Students created a map template and parcel data for all clean certified marinas in Ohio.

Curriculum Development

Certificates

- Geospatial Technology Skills Certificate, 2017.
- Geospatial Technology Certificate, 2011.

Course Development

- GEOG 1400 – Mapping Technologies, 2017.
- GEOG 2720 – Web Mapping and Programming for GIS, 2016.
- GEOG 2700 – Introduction to Geographic Information Science, 2012.
- GEOG 2710 – Data Acquisition and Management, 2012.

Hybrid Course Development

- GEOG 1550 – Physical and Environmental Geography, 2018.

- GEOG 2710 – Data Acquisition and Management, 2018.
- GEOG 2750 – Spatial Analysis and Modeling, 2016.
- GEOG 1700 – Map Design and Interpretation, 2015.
- GEOG 2700 – Introduction to Geographic Information Science, 2015.
- GEOG 2760 – Project Management for Geospatial Technology, 2015.

Online Course Development

- GEOG 2700 – Introduction to Geographic Information Science, 2016.
- GEOG 1700 – Map Design and Interpretation, 2015.

Online Quality Matters

- GEOG 1700 – Map Design and Interpretation Quality Matters certified, 2016.

Advising

- Lakeland Community College Student Project Advisor for Community College – STEM Training and Retention of Students! (CCSTARS) grant recipients – Geospatial Analysis projects, 2015-2017.
- Lakeland Community College Civic Hacking Club – Advisor, since 2018.
- Mentor High School Science Research Project Advisor – Student analyzed the incidence of avian influenza. Train student on GIS processes to map frequency and location, 2016.

Articulation

Partnerships Degree Programs

- Cleveland State University, Maxine Goodman Levin College of Urban Affairs, Bachelor of Arts in Urban Studies – Urban & Regional Planning Track and Urban Studies – Environmental Policy and Management Track. Partnership crosswalk completed. Articulation in progress.

Grants

- Lakeland Community College Faculty Challenge Grant 2018 – Augmented Reality (AR) Sandbox Project was a collaboration between the Geography & Geospatial Technology and Engineering. Students from both programs worked to design, construct and deploy the sandbox. They recorded the project progress and reported on each phase.

Presentations

- Oxfam Banquet – Lakeland Community College Green Group Student Organization – “Measuring Sustainable Development with GIS”, 2018.
- Lakeland Community College Geospatial Advisory Board – “Program Background”, 2018.
- Lakeland Community College Guidance Counselor Advisory Board – “It’s a whole new geography!”, 2018.

Professional Achievement Extended

Presentations

- Lake Erie Allegheny Partnership for Biodiversity – “Drones for Natural Resource Management”, 2019
- School of Innovation – “Career Presentation” WE SOI, 2018.
- Lake County Visitors Bureau BBQ – “GIS and Transportation”, 2018.
- Northeast Ohio GIS Symposium – “Value of Service Learning”, 2017.

- United States Spatial Intelligence Foundation (USGIF) GEOINT Summit – “How Community Colleges fit into the USGIF accreditation process?”, 2017.
- National Aeronautics and Space Administration (NASA) – “GIS data integration for Regional Economic Development (RED)”, 2017.
- Public Land Surveyors of Ohio (PLSO) – “GIS for Surveying”, 2016.
- Lakeland Community College GIS Day 2015 – “Mobile GPS Applications”, 2015.
- Mentor Rotary Club – “Geospatial Technology at Lakeland Community College”, 2015.

Workshops Attended

- Part 107 Certification Program, GeoEd ‘18 Conference, Parkland Community College, Champaign, IL, 2019.
- ArcGIS Pro Workshop, Youngstown State University, Youngstown, OH, 2019.
- Sustainable Development Goals Academy MOOC, Human Rights, Human Wrongs, 2017
- Geospatial Online Training MOOC, Earth Imagery at Work, UDEMY, 2016.
- Geospatial Intelligence & the Importance of Remote Sensing, GeoEd ‘16 Conference, GeoTech Center, Louisville, KY, 2016.
- Geospatial Online Training MOOC, Spatial Analyst, UDEMY, 2015.
- Community College – STEM Training and Retention of Students! (CCSTARS), Unmanned Aerial System (UAS) Workshop, Lorain Community College, Elyria, OH, 2015.
- Simple Python using ArcPY Workshop and Using Collector for Field Data Collection Workshop, GeoEd ‘15 Conference, GeoTech Center, Louisville, KY, 2015.
- Geospatial Online Training MOOC, GEO App Development, UDEMY, 2014.
- Story Mapping with ESRI and Open Source workshops, GeoEd ‘14 Conference, GeoTech Center, Louisville, KY, 2014.
- Open Source GIS workshop, Ohio GIS Conference, Columbus, OH, 2014.
- ESRI Business Analyst, Pictometry and Data Acquisition workshops, GeoEd ‘12 Conference, GeoTech Center, Louisville, KY, 2012.
- ArcGIS Flex Viewer online training, Geospatial Services, 2011.
- Field Automation workshop, URISA, Ohio Chapter, 2011.
- Spatial Data Management workshop, URISA, Ohio Chapter, 2011.
- ESRI Web GIS & Server workshop, Southwest Ohio GIS Users Group. Dayton, OH, 2011.

Conferences

- Part 107 Remote Pilot Certification Workshop. Champaign, IL, 2019.
- Northeast Ohio GIS Symposium, Cleveland, OH, 2019.
- Data Days CLE Symposium, Cleveland, OH, 2019.
- American Association of Geographers Annual Conference, Washington, D.C, 2019.
- GeoEd ‘18 Conference, GeoTech Center, Louisville, KY, 2018.
- Data Days CLE Symposium, Cleveland, OH, 2019.
- GIS-T Conference AASHTO GIS for Transportation Symposium Little Rock, AR 2018.
- Cleveland Museum of Natural History Conservation Symposium, Cleveland, OH, 2017.
- Northeast Ohio GIS Symposium, Cleveland, OH, 2017.
- GeoEd ‘16 Conference, GeoTech Center, Louisville, KY, 2016.
- Cleveland Museum of Natural History Conservation Symposium, Cleveland, OH, 2016.
- Northeast Ohio GIS Symposium, Cleveland, OH, 2016.
- Department of Defense Educators Tour, Ft. Leonard Wood, MO, 2016.

- East Lakes Division American Association of Geographers Conference, Kent, OH, 2015.
- GeoEd '15 Conference, GeoTech Center, Louisville, KY, 2015.
- Northeast Ohio GIS Symposium, Cleveland, OH, 2015.
- UAS Mapping 2015 RENO, Reno, NV, 2015.
- GeoEd '14 Conference, GeoTech Center, Louisville, KY, 2014.
- Northeast Ohio GIS Symposium, Cleveland, OH, 2014.
- Free and Open Source Software for Geoinformatics (FOSS4G) Conference, Minneapolis, MN, 2013.
- Ohio GIS Conference, Columbus, OH, 2009 to 2013.
- GIS-Pro Annual Conference, URSIA International, Portland, OR, 2012.
- GeoEd '12 Conference, GeoTech Center, Louisville, KY, 2012

Professional Service at Lakeland Community College

Consulting

- AECOM Health Technology Data Project – Collected and created spatial data Lakeland Community College for contractors, 2016.

Projects

- Advisor, Civic Hacking Club, Lakeland Community College, 2018. The club was created by students interested in community involvement and the current advisors, Professor Bobby Oliver, GISP and Leah Hartmann, of the President's office, to bring together students from across many disciplines to promote creative ways to solve civic problems by looking at new ideas or methods for improving cities, communities and the citizens that live there. The club uses the diverse interests of the students to work on projects that educate and contribute to issues from the community to global scale.
 - We held our first event on GIS Day 2018 and 2019 – Civic Hacking Humanitarian Mapathon.
 - Five students participated in the 2019 Erie Hack 2.0.
- Organizer, GIS Day Lakeland Community College, 2015- 2019. Arrange speakers, vendors, and activities to bring GIS professional to engage students.
- Organizer, Women in GIS, Lakeland Community College, 2014 – 2019. I started the Women in GIS group to engage female students in this STEM field. I work to bring students and professionals together for mentoring and networking. I am currently working with the international non-profit, Women in GIS to initiate this group as the foundation of the Ohio Chapter.
- Geography & Geospatial Technology Department Program Tracker sponsored by grant from the Cleveland Foundation Fenn Educational Fund Grant. Developed a database to track student, course and program progress for Geography and Geospatial Department at Lakeland Community College, 2014.
- Geospatial Professional Network (GPN) Tracker, sponsored by grant from the Cleveland Foundation Fenn Educational Fund. Developed a database to track participation of professionals and students who participate in geospatial class, department and college activities for Geography and Geospatial Department at Lakeland Community College, 2014.

- Geospatial Professional Network & Women in GIS at Lakeland Community College sponsored by grant from the Cleveland Foundation Fenn Educational Fund. Assisted with the development and introduction of the programs. Collaborate with faculty and professionals on networking events that promote and result in student retention and internships. Create events and interaction for female students and professionals to promote women in STEM programs and the workforce for Geography and Geospatial Department at Lakeland Community College 2014.
- Women Tech Educators Workshop/Fellowship – Mapping the Path: Best Practices to Recruit & Retain Women in Your STEM Program. Sponsored by Institute for Women in Technology, Trades and Sciences (iWITTS) and the Geotech Center. Developed recruitment and retention plans for women in the Geospatial Technology Program at Lakeland Community College, 2013.

Workshops Provided

- Lakeland Community College 50 Acts of Service – Non-Profit Center Opensource GIS Workshop – Geocoding with Opensource, 2017.
- Lakeland Community College Best Practices for Intern Supervisors & ROI- Return on Interns, funded by FENN grant, 2015.

Committees

- Ohio Department of Higher Education (ODHE) GIS Review Panel 2018 to present.
- Geography and Geospatial Technology Advisory Board 2018 to present.
- Women in GIS – Mentorship Committee Member 2017 to present.
- Ohio Department of Higher Education (ODHE) GIS Tag Committee 2016.
- Lakeland Community College Technology Strategies Committee 2015 to present.
- Lakeland Community College Non-Credit Learning Committee 2015 to 2017.

Professional Service Extended

Consulting

- NASA Space Apps Challenge Hackathon – Subject Matter Expert in geospatial, 2018 and 2019.
- Geocentric Consulting, City of Painesville Infrastructure Project – Define and develop internship parameters for data collection, 2018-2019.
- City of Mentor, GIS Training & Intern Development, 2015.
- Cleveland Museum of Natural History (CMNH) GIS Data Design & Management Internship, develop geodatabase project to meet CMNH needs, completed by LCC geospatial student, 2016.
- NASA Regional Economic Development department – Implementing GIS for Economic Development, 2016.

Committees

- North Coast Drone Alliance, Board of Directors member 2020.
- Data Days Cleveland Planning Committee 2019, 2020.
- Geotechnical Advisory Committee for Stark State Technical College, 2008 to 2016.
- At-Large Representative for Ohio Geographically Referenced Information Program (OGRIP) Forum, 2014.

- Geotechnical Advisory Committee for Lakeland Community College 2011 to 2013.
- GIS liaison for The Nature Conservancy Great Lakes Restoration Initiative Grant for invasive species management on the Grand River, 2010 to 2013.
- Logistics Committee for Ohio GIS Conference, 2011.

Affiliations

- North Coast Drone Alliance, member since 2019.
- Women in GIS, member since 2017.
- Geographic Information and Technology Association, member since 2016.
- Women Tech Educators Learning Community, member since 2013.
- Society for Conservation GIS (SCGIS), Ohio Chapter, member since 2011.
- Urban and Regional Information System Association International (URISA), member since 2009.
- Urban and Regional Information System Association International (URISA), Ohio Chapter, member since 2009.
- Society for Conservation GIS International, member since 2008.
- Lake Erie Allegheny Partnership for Biodiversity (LEAP), member since 2007.

Awards and Scholarships

- Award for Excellence of Scholarship, University of Akron, 2005.
- Outstanding Senior Award, Geography and Planning, University of Akron, 2004.
- Partners in Excellence Scholarship, University of Akron, 2003.
- Outstanding Woman Student Award Geography and Planning, University of Akron, 2003.

Community

- President, Board of Directors, Shore Cultural Center, Euclid, Ohio, 2016 to present.
- Volunteer, Big Brothers and Big Sister of Greater Cleveland, OH, 2002 to 2004 and 2018 to present.
- Volunteer, Speaker, Mentor Public School District Business Advisory Council, 2011 to 2015.