

Luke Van de Walle

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Early career GIS professional with a strong foundation in geospatial analysis, data science, and Python scripting; passionate about leveraging GIS to solve complex problems and support data-driven decision-making, bolstered by hands-on experience in building GIS data sets, automating GIS workflows, conducting geospatial analysis, and creating interactive data visualizations.

PROFESSIONAL EXPERIENCE

Precisely, GIS Technician

Remote | July 2024 - Present

- Enhanced the Residential Neighborhood Boundaries product by building and updating 3,000+ polygons for new neighborhood developments, reviewing geocoding on input data sources and validating accuracy, ensuring alignment with standard procedures for accurate data representation
- Developed Python scripts using ArcPy to automate and streamline GIS workflows, improving the efficiency, consistency, and accuracy of the build processes
- Created and implemented a peer data check workflow, integrating it into existing tracking systems to enhance review efficiency and standardize quality control

Geospatial Analysis and Learning Lab, Data Analyst

South Bend, IN | May 2024 - August 2024

- Created an [interactive map dashboard](#) and [cost of living calculator](#) to model poverty through the ALICE methodology for counties in Northern Indiana via ArcGIS Online and R Studio
- Provided actionable insights to local stakeholders by visualizing socio-economic data and trends, enhancing data-driven decision-making

Center for the Study of Languages and Cultures, Writer, Media Team Manager

South Bend, IN | February 2021 – May 2024

- Led an initiative to analyze follower engagement with different social media strategies, resulting in increasing Instagram followers from 100 to 1100+ through strategic content creation
- Designed promotional materials for Center events, including posters, digital signage, and Instagram Reels, amplifying event reach and visibility
- Conducted interviews and wrote articles highlighting global cultures in South Bend, Indiana

St. Dominic Parish and Santo Domingo, Non-profit Consultant

Chiltiupán, El Salvador | June 2022 – July 2022

- Conducted interviews with key Salvadoran stakeholders of the different branches of the Cleveland-based non-profit mission of St. Dominic, culminating in producing a final report summarizing the findings from interviews and outlining paths forward
- Acted as a tour guide for US donors, helping introduce them to local families, translate conversations, and functioning as a cultural bridge

EDUCATION

Undergraduate Studies, University of Notre Dame

South Bend IN | Class of 2024

B.A. Political Science/Global Affairs, minor in Data Science, 3.84 GPA

Relevant Courses: Quantitative Political Analysis | Research Methods for Social Science Fieldwork | Introduction to ArcGIS |

Statistics for Sociological Research

RELEVANT PROJECTS

Domingo Savio Institute, Development Advisory Team Member

Santiago, Chile | August 2023 - Dec 2023

- Led a group of students working with Chilean non-profit Domingo Savio to identify areas for growth and create sustainable solutions to continue the growth of the organization under the advisement of Professor Steven Reifenberg
- Final deliverables include a new [website](#) and volunteer intake system to increase international volunteers and generate a sustained source of interest in new volunteer opportunities

International Development Studies Capstone, Independent Research

Quito, Ecuador | January 2023 - December 2023

- Designed and implemented a field experiment to foster tolerance toward Venezuelan refugees through perspective-taking interventions.
- Conducted a six-week study in Quito, Ecuador, involving participant recruitment, survey administration via Qualtrics, and data analysis, leading to a statistically significant outcome and practical recommendations for national-scale implementation

Summer Language Abroad

Cuenca, Ecuador | June 2023 - July 2023

- Completed six weeks of intensive Spanish language immersion classes at Estudio Sampere in Cuenca, Ecuador
- Engaged with supplemental educational resources on intercultural communication skills with subsequent [blog reflections](#), ending with the Intercultural Development Inventory to measure growth in intercultural communication skill
- Funded through the Summer Language Abroad Grant through the Center for the Study of Languages and Cultures at the University of Notre Dame

SKILLS & LANGUAGES

Technical Skills: Coding in Python, R, SQL | Data Visualization | GIS (ArcGIS, QGIS)

Software & Tools: ArcMap, ArcPro, ArcGIS Experience Builder, Jira, Jenkins, Microsoft Excel, Microsoft Office Suite, Qualtrics, WordPress, Meta Business Suite, Adobe Premiere Pro

Languages: Spanish (B2/C1)