

Luke Van de Walle

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

PROFESSIONAL EXPERIENCE

Precisely, GIS Technician

Remote | July 2024 - Present

- Expanding Residential Neighborhood Boundaries product by building polygons in new neighborhood developments, creating shapefiles in accordance with standard alignment procedures
- 3,500+ polygons built and updated to provide meaningful utility and comprehensive coverage to customers
- Developing Python scripts with ArcPy to increase build efficiency and enhance quality control in geospatial datasets

Geospatial Analysis and Learning Lab, Data Analyst

South Bend, IN | May 2024 - August 2024

- Conducted geospatial analysis to provide insights for regional poverty alleviation initiatives
- Created an [interactive map dashboard](#) and [cost of living calculator](#) to model poverty through the ALICE methodology via ArcGIS Online and R Studio, pushing data to the census tract level covering 5 counties with 600,000+ residents

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

South Bend, IN | February 2021 – May 2024

- Led interviews and wrote articles about news relating to the CSLC
- Overhauled the messaging strategies resulting in increasing Instagram followers from 100 to 1100+ through strategic content creation guided by engagement metric analysis
- Designed promotional materials for Center events (posters, digital signage, Instagram Reels, etc.)

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

Compass Payroll, Data Processor

Cleveland, OH | May 2021 – August 2021

- Led the transition from a locally hosted payroll system to a data management system on Microsoft Azure while maintaining support for the previous system to create a seamless transition in service

SKILLS

Coding: R (tidyverse, dplyr, ggplot2, tidycensus, shiny) | Python (ArcPy, NumPy, Pandas) | SQL | HTML & CSS |

Software/Tools: ArcMap, ArcGIS Pro, ArcGIS Experience Builder, QGIS, Jira, Jenkins, Qualtrics, Microsoft Excel, Microsoft Office Suite

Languages: Spanish (Level B2/C1)

EDUCATION

Undergraduate Studies: B.A. Political Science/Global Affairs, Data Science, 3.836 GPA

South Bend | **Class of 2024**

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
- Diligently worked to plan and carry out an efficient workflow across international borders and cultural differences
- 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 an independent research project in the form of a field experiment focusing on tolerance building towards Venezuelan refugees through perspective taking
- Spent the Winter and Spring of 2023 designing the intervention, followed by six weeks in Quito, Ecuador, recruiting participants and administering surveys through Qualtrics
- Resulted in the creation of a statistically significant tolerance-building intervention with suggested ways to scale the solution to a national level in the final capstone paper

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

Global Citizen Year Capstone

Paute, Ecuador | January 2020 - March 2020

- Interviewed faculty and staff at Urbano Agronómico Salesiano to identify most effective teaching practices, using findings and class textbook to create 50+ lessons to assist new teachers