

JARYT D. SALVO

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TEACHING & RESEARCH PROFILE

Computer science and analytics educator with a decade-plus of university, middle-school, and international teaching, and applied research in crime-pattern forecasting and machine-learning operations. Designs project-based curricula from first principles—Excel data skills, web development, and functional programming in Clojure—with reproducible, AI-assisted, version-controlled materials. MSc Analytics (4.0); ACJS 2025 research presentation.

TEACHING EXPERIENCE

Hudson Memorial School (SAU 81)

Computers Teacher (Grades 6–8)

Hudson, NH

Aug 2025 — *Present*

- Designed and taught an original Computers 6–8 sequence (Microsoft Office Suite, web development, functional programming in Clojure) with labs, assessments, and Git-reviewed materials
- Ran project-based capstones, including partner websites and algorithm-teaching in the REPL

Eswatini Medical Christian University

Computer Science Lecturer, Peace Corps Response

Mbabane, Eswatini

Oct 2022 — Oct 2023

- Delivered five undergraduate CS courses (Foundations I & II, Data Mining/EDA, Regression, AI/ML) end-to-end via Google Classroom
- Built an R-based analytics curriculum; supervised capstone teams (National Library system)

Japan Exchange and Teaching (JET) Program

Senior Language Instructor

Sasebo, Japan

Aug 2018 — Aug 2020

- Co-planned and delivered English for grades 3–9 with Japanese faculty

Peace Corps

Secondary Education Specialist

Luwazi, Malawi

June 2014 — July 2016

- Taught mathematics and English with locally adapted materials; led community projects

RESEARCH

Tract-Level Crime Forecasting with Prophet (ACJS 2025)

Spring 2025

- Meta Prophet forecasts across six crime categories and 90+ Toledo census tracts (500K+ records); co-presented at the Academy of Criminal Justice Sciences 62nd Annual Meeting
- Automated cleaning/geocoding ETL for Toledo Police data (approx. 75% less manual processing); interactive Shiny dashboard for practitioners

MLOps Pipeline for Brain Tumor Detection (TDA + DL)

Spring 2024

- Reproducible training/ops pipeline (DVC, GitHub Actions); topological data analysis + deep learning, approx. 92% classification accuracy (reported evaluation)

EDUCATION

Bowling Green State University

Bowling Green, OH

- **MSc**, Analytics (GPA 4.0), 2020–2021 · **MA**, Cross-Cultural & International Education (GPA 4.0), 2017–2018 · **BSc**, Education, Mathematics minor, 2011–2014

SELECTED PUBLICATIONS & PRESENTATIONS

- “Forecasting Crime Trends in Toledo, Ohio: A Prophet-Based Modeling Approach,” ACJS 62nd Annual Meeting, Mar 2025
- “PCA in Clojure with Neanderthal,” technical talk (video), 2024
- “MLOps and Topological Analysis for Brain Tumor Detection,” technical talk (video), 2024

CERTIFICATIONS & SERVICE

- TESOL (120-hour); Inclusive & Global Leadership Certificate; capstone advising; EMCU TV outreach; Electronics Journal for scholarly publications