

William Goode

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OBJECTIVE

Mathematician focused on leveraging data to solve complex, real-world problems. Developed expertise in Python, machine learning, and data analysis through hands-on projects and continuous learning.

PROJECTS

- Developed and implemented machine learning models for object detection and image classification on both static and live video feeds to automate workflows.
- Created a database locally in Microsoft SQL Server; connected this to a dynamic data visualization web app created using Dash and Flask.
- Conducted A/B testing and statistical analysis, including regression and hypothesis testing, to gain data-driven insights into finance strategies.
- Utilized time-series modeling (ARIMA) to forecast maximum weekly player counts for an online game.
- Deployed models on Amazon ECS as containerized web apps.

EMPLOYMENT

Concan Consulting Corporation Apr 2025 – Jun 2025
Software Engineer Remote

- Developed REST API in C# using ASP.NET Core and Entity Framework.
- Consulted small e-commerce businesses on best practices.
- Wrote custom scripts in platform-specific language (Liquid) for front-end development.

Vanderbilt University Aug 2023 – Aug 2024
Senior Lecturer of Mathematics Nashville, TN

University of North Texas Aug 2017 – May 2023
Graduate Teaching Fellow Denton, TX

University of North Texas Aug 2014 – May 2017
Undergraduate Teaching Assistant Denton, TX

EDUCATION

University of North Texas Graduated May 2023
PhD, Mathematics Denton, TX

- 4.0 GPA
- 2022-2023 UNT Department of Mathematics Outstanding Graduate Student Award recipient.
- Summer 2022 College of Science Dean’s Doctoral Fellows Stipend recipient. (\$5000)
- Research area: Representations of infinite-dimensional Lie (super)algebras of vector fields.
- Publication: C. H. Conley, W. Goode. An approach to annihilators in the context of vector field Lie algebras. *Expositiones Mathematicae* (2024) 125600. ([Link](#))

University of North Texas Graduated May 2017
BS, Economics. BS, Mathematics. Denton, TX

- 3.79 GPA: Cum Laude.
- 2016-2017 Jack Johnson Award for Top BA/BS in Economics.