

Valon Haslem

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EDUCATION

Bachelor of Science in Applied Mathematics & Economics

Graduation Date: May 2026

Concentration in Computer Science | GPA 3.95

Gonzaga University | Spokane, WA

RELEVANT COURSEWORK

Mathematics: Abstract Algebra I, Applied Linear Algebra, Applied Statistical Models, Combinatorial Games, Complex Variables, Medical Statistics, Probability Theory, Real Analysis I, Real Analysis II, Stochastic Processes, Topology

Economics: Econometrics, Money and Banking, Game Theory, Regression Analysis

TECHNICAL SKILLS

Python | RStudio | Microsoft Office | MATLAB | C++ | Overleaf | SQL

PROFESSIONAL EXPERIENCE

Combinatorics Research Assistant

August 2023 – Present

Gonzaga University Math Department, Spokane, WA

- Collaborating on a Combinatorial Study of Games under Dr. Kat Shultis and Dr. Hays Whitlatch.
- Contributed to idea generation, research development, and presentation to faculty.
- Gained expertise in Overleaf, combinatorics, and research methodology at the collegiate level.
- Co-developed and presented a poster at the Pacific Inland Mathematics Undergraduate Conference, awarded "Best Poster."
- Preparing a research paper for submission to a mathematics research journal.
- Presented poster at the 2025 Joint Mathematics Meeting.

Medical Statistics Research Assistant

January 2025 – Present

Gonzaga University Math Department, Spokane, WA

- Working with Professor Abdulla Mamun to conduct statistical analysis using R on medical data in a collaborative project with the Gonzaga Nursing School.
- Writing and publishing a paper with completed data.
- Presenting research at the 2025 Pacific Inland Mathematics Undergraduate Conference.

Mathematics Tutor

January 2024 – Present

Gonzaga University Math Department, Spokane, WA

- Tutoring 20 students per week in calculus, statistics, economics, and computer science.
- Enhanced soft skills, collaborative abilities, and teaching methodologies.
- Fostered a passion for mentoring and guiding students in their mathematical journey.

Discrete Mathematics Paper Referee

January 2025 – Present

Gonzaga University Math Department, Spokane, WA

- Collaborating with Dr. Kat Shultis and Dr. Hays Whitlatch to referee a discrete mathematics paper, set to be published in the *Theory and Applications of Graphs* Journal.

Summer Operations Assistant

June 2024 – August 2024

Gonzaga University Event Services, Spokane, WA

- Managed logistics and operational tasks at the Gonzaga Hemmingson Center.
- Solved critical issues in organizational structures within storage and event centers.
- Worked collaboratively with the team to execute events efficiently.

SERVICE EXPERIENCE

Middle School Volunteer Leader

May 2023 – May 2024

Gonzaga Center for Community Engagement, Spokane, WA

- Facilitated student mentoring between Shaw Middle School students and undergraduates.

- Emphasized mentor bonding, continual support for families, and vocational thinking.
- Increased middle school student retention and engagement.

PERSONAL PROJECTS

Economic Impacts on Children of Divorce

September 2024 – December 2024

- Conducted statistical analysis on the CDC Behavioral Health and Surveillance System Survey.
- Identified no trend between certain wellness indicators and parental marital status.
- Found strong relations between wellness and lifestyle factors that influence parental marital status, allowing for further understanding of the influences of these lifestyle factors.

Spotify API Research on Artist Recommendations

June 2024 – Present

- Wrote python code to visualize networks between Spotify artists and their recommendations.
- Converting the research direction into machine learning artist prediction, genre clustering, and quality analysis.

Conformal Mapping and the Cortical Mapping Problem

March 2024 – May 2024

- Studied current research on cortical mapping and its relationship with complex analysis.
- Presented on modern usage of Teichmüller spaces to map the brain in the context of MRI scans.

KenPom Data Analysis with kNN Classification

December 2024 – Present

- Utilizing elementary machine learning techniques to predict NCAA basketball rankings.
- Finding significant multicollinearity issues in data, developing a more robust framework for prediction.

AWARDS AND MEMBERSHIPS

- *President*, Society of Industrial and Applied Mathematics, Gonzaga University
- *Member*, Pi Mu Epsilon, Gonzaga University
- *Member*, Omicron Delta Epsilon, Gonzaga University
- *Member*, Honors Program, Gonzaga University
- *Best Poster*, Pacific Inland Mathematics Undergraduate Conference, University of Idaho
- *President's List*, Gonzaga University