

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

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| Economic Impacts on Children of Divorce | September 2024 – December 2024 |
| <ul style="list-style-type: none"> • 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 |
| <ul style="list-style-type: none"> • 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 |
| <ul style="list-style-type: none"> • 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 |
| <ul style="list-style-type: none"> • 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