Daniel Morrison

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Education

2014–Current **Mathematics B.S. and Physics B.S.,**
Computer Science Minor and Economics Minor,
University of Wisconsin-La Crosse.
Overall GPA: 3.98   Mathematics GPA: 3.96
General GRE: Verbal - 164, 94th percentile, Quantitative - 169, 96th percentile
Math Subject GRE: 780, 76th percentile
Upper Level Math Classes Taken:
Real Analysis I&II, Abstract Algebra I, Topology (Independent Study), Algebraic Topology
(Independent Study), Calculus on Manifolds (Independent Study), Functional Analysis
(Independent Study), Graph Theory, Number Theory

Research Experience

2014–2015 **Eagle Apprenticeship**.
- Assisted professor in modelling conical springs and dark matter distribution
- Utilized Mathematica to derive equations utilized in our models
- Coded in Fortran and IDL to run simulations

2015–2016 **Machine Learning Research**.
- Successfully completed a self-guided course in machine learning
- Applied learning algorithms to make sales forecasts for Fastenal
- Used a genetic algorithm to generate class schedules for UWL Math & Stats department

Summer 2016 **Research in Industrial Projects for Students (RIPS) at the Institute for Pure and Applied Mathematics (IPAM)**.
- Worked with HRL Laboratories on modelling quantum dots
- Worked both independently and as a team member for 9 weeks
- Utilized MATLAB and Mathematica to create visualizations of the model

Presentations

Fall 2015 **Using Time Series to Create Sales Forecasts**.
UWL Math & Stats Colloquium, University of Wisconsin - La Crosse

Spring 2016 **Generating Schedules with Genetic Algorithms and Integer Linear Programming**.
Wisconsin MAA Meeting, University of Wisconsin - La Crosse

Fall 2016 **Modeling Electrostatically Defined Quantum Dots**.
UWL Math & Stats Colloquium, University of Wisconsin - La Crosse

Service

2017-Current **Treasurer of the UW-L Math & Stats Club**.
- Organizing weekly meetings
- Handling dues and funds

Languages & Ability

Spanish	Intermediate
Java	Proficient
Mathematica	Proficient
MATLAB	Intermediate
R	Intermediate
C#	Intermediate
Python	Advanced Beginner
Fortran	Beginner
IDL	Beginner

Recognitions & Awards

2014 Scholarships: George Scholarship ($4,000), Ingersoll Rand Scholarship ($2,500), Wisconsin Academic Excellence Scholarship ($2,250), Linda Host Scholarship ($2,000), UWL Eagle Apprenticeship ($1,000), Charles and Lillian Gay Scholarship ($1,000), La Crosse Central Alumni Scholarship ($500), Wisconsin Covenant Grant ($250)

2014 Putnam Exam Score of 4

2015 Scholarships: George Scholarship ($4,000), Ingersoll Rand Scholarship ($2,500), Wisconsin Academic Excellence Scholarship ($2,250), Linda Host Scholarship ($2,000), UWL Eagle Apprenticeship ($2,000), Charles and Lillian Gay Scholarship ($1,000)

2015 Wisconsin Math Modelling Challenge - First Place Executive Summary

2015 University of Wisconsin-La Crosse Calculus Competition - Second Place

2016 Scholarships: George Scholarship ($4,000), Ingersoll Rand Scholarship ($2,500), Wisconsin Academic Excellence Scholarship ($2,250), Charles and Lillian Gay Scholarship ($1,000), Scott Carnes Scholarship ($700), Arnold Temte Math Scholarship ($400), Eric Stuart McIlraith Scholarship ($200)

2016 University of Wisconsin-La Crosse Calculus Competition - First Place

2017 Scholarships: George Scholarship ($4,000), Ingersoll Rand Scholarship ($2,500), Wisconsin Academic Excellence Scholarship ($2,250), Charles and Lillian Gay Scholarship ($1,000), Robert Uber Physics Scholarship ($1,000), Murphy Scholarship ($750), Arnold Temte Math Scholarship ($400), James Sobota Math Scholarship ($200)

2017 University of Wisconsin-La Crosse Calculus Competition - Second Place