Murray M. Pendergrass

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Former research mathematician turned data scientist; skilled in coding, modeling, and machine learning

Education

University of Washington

CERTIFICATE IN DATA SCIENCE   *April 2025 - Dec 2025*

- Program intended for technical professionals to advance their skills in statistical methods and machine learning

Western Washington University

MASTER OF SCIENCE - MATHEMATICS (ACCELERATED)   *2017 - 2018*

- Department GPA: 3.58
- Thesis on sheaf cohomology

Western Washington University

BACHELOR OF SCIENCE - MATHEMATICS (HONORS)   *2012 - 2017*

- Department GPA: 3.94
- Supporting coursework in economics and computer science

Experience

Actuarial Exams

- SOA Exam P: Passed
- SOA Exam FM: Passed
- VEE Courses: Applied Statistical Methods, Economics, Accounting

NDN Collective   *Mar. 2024 - Sep. 2024*

COMMUNITY CARE COORDINATOR

- NDN Collective is a non-profit seeking to advance Indigenous peoples rights and cultures. In this role I assisted with all aspects of project fulfillment for the Community Care Program and began to implement data infrastructure for the program. As a descendant of the Blackfeet Nation, I am passionate about working in Native American outreach, but looking for a more technical career path.

Trupanion - Pet Health Insurance   *Mar. 2021 - Mar. 2023*

DATA SCIENTIST / ACTUARIAL SCIENTIST

- Sought out challenging new data driven problems in the emerging pet insurance industry. Specialized in new product ratemaking and modeling. Was the lead pricing analyst bringing new insurance products from concept to launch by implementing and improving pricing models ranging from GLMs to random forests. Worked extensively in R, Python, and SQL.

Milliman - Seattle Life   *Sep. 2018 - Jun. 2020*

DATA SCIENTIST / ACTUARIAL CONSULTANT

- Developed data pipelines in Python and web hosted models for clients as a SaaS product in Shiny. Wrote a Python automation for monthly profitability models. Executed model validation written in F# and C#. Built a supervised machine learning model to predict policyholder lapse rates that increased accuracy of previous models.

University of Maryland   *Jun. 2016 - Aug. 2016*

FUNDED RESEARCHER FOR THE DEPARTMENT OF MATHEMATICS

- Funded by the National Science Foundation to conduct research on the moduli space of Hilbert schemes.

Honors & Awards

UNIVERSITY AWARDS & SCHOLARSHIPS

Recipient, Elias A. Bond Mathematics Scholarship
Recipient, Cum Laude University Honors Graduate
Recipient, AMP Scholar, All Nations Louis Stokes

DEPARTMENTAL AWARDS & SCHOLARSHIPS

Recipient, Graduation with Distinction
Recipient, Mathematics Memorial Scholarship
Recipient, Presidents List