



Murray M. Pendergrass

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Experience

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

- Assisted with all aspects of project fulfillment for the Community Care Program. Passionate about working with Native American outreach, but looking for more technical career path.

Trupanion - Pet Health Insurance

Mar. 2021 - Mar. 2024

ACTUARIAL ANALYST

- Sought out challenging and new actuarial problems in the emerging pet insurance industry. Specialized in new product ratemaking as the primary pricing actuary bringing PHI and Furkin insurance products from concept to launch. Also carried out state filings, IBNR reserving. Worked extensively in SQL, as well as R and Python.

Milliman - Seattle Life

Sep. 2018 - Jun. 2020

ACTUARIAL ANALYST / DATA SCIENTIST

- Conducted ALM research under VM-21 framework. Prepared research for actuarial calculations under IFRS 17. Expanded, optimized, and automated a LSMC model for forecasting profitability (MCVNB) for VA GMAB/GLWB products. Managed and improved data pipelines and modeling for predictive analytic web applications. Built GLM models for VA client utilization. Worked extensively with large data, R, Python, SQL and more. Provided support on reserving and asset modeling tasks.

Milliman - Seattle Life

Jun. 2018 - Sep. 2018

ACTUARIAL INTERN

- Validated financial models for daily trade recommendations and hedging written in C# and F#. Developed software for actuarial model version control in PHP and SQL. Gained knowledge of MG-ALFA and life insurance products.

University of Maryland

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FUNDED RESEARCHER FOR THE DEPARTMENT OF MATHEMATICS

Jun. 2016 - Aug. 2016

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

Education

Western Washington University

MASTER OF SCIENCE (ACCELERATED) - MATHEMATICS

2017 - 2018

- Department GPA: 3.58

Western Washington University

BACHELOR OF SCIENCE - MATHEMATICS

2012 - 2017

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

Honors & Awards

UNIVERSITY AWARDS & SCHOLARSHIPS

- 2017 **Recipient**, Elias A. Bond Mathematics Scholarship
- 2017 **Nominee**, Presidential Scholar Award
- 2017 **Recipient**, Cum Laude University Honors Graduate
- 2016 **Recipient**, AMP Scholar, All Nations Louis Stokes

DEPARTMENTAL AWARDS & SCHOLARSHIPS

- 2017 **Recipient**, Graduation with Distinction
- 2015 **Recipient**, Tuition Waiver Award
- 2015 **Recipient**, Mathematics Memorial Scholarship
- 2013 **Recipient**, Presidents List