

# ALEXANDER P. MENENDEZ

## Curriculum Vitæ

### Personal Information

- Date and place of birth: 12/14/1995, Salt Lake City, UT
- Citizenship: United States
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### Educational History

- **University of Washington:** Seattle, WA, United States
  - Bachelor of Arts (BA) in Pure Mathematics [Sept 2014 - Jun 2018]
  - Academic interests: Partial differential equations, harmonic analysis, probability theory
  - Selected coursework: ordinary differential equations, partial differential equations and waves, advanced linear algebra, linear analysis, advanced multivariable calculus, real analysis (two-quarter sequence), complex analysis (two-quarter sequence), topology, probability (three-quarter sequence), scientific computing, fundamental concepts of analysis (three-quarter sequence)
- **Loyola Sacred Heart High School:** Missoula, MT, United States
  - High school diploma

### Experience

- **UW College Republicans (now dissolved):** Seattle, WA, United States
  - Treasurer [Sept 2014 - May 2016]
    - Managed club funds and appropriated them toward club activities.
- **ACED On-Demand Tutoring:** Seattle, WA, United States
  - Mathematics tutor [Sept 2015 - Jun 2016]
    - Conducted one-on-one and group tutoring with UW undergraduates in single- and multi-variable calculus, differential equations, and linear algebra.
- **Foster Investment Fund:** Seattle, WA, United States
  - Portfolio Analyst [Sept 2014 - Jun 2016]
    - Along with other highly-skilled UW undergraduates in majors ranging from finance to statistics and mathematics, I helped manage 50,000 USD in assets and performed in-depth market research on a daily basis so that our assets could be invested as strategically as possible and so that our portfolio could perform as well as possible. During my tenure, I focused largely on energy and commodities, but transitioned into consumer and retail equities. Duties included attending weekly team meetings to discuss research as well as assembling powerpoint presentations with graphical data and projections. In addition, we met with and consulted with investment bankers and hedge fund managers from around the Seattle area for guidance.

- **Personal Tutoring:** Missoula, MT, United States
  - SAT and ACT tutor [Sept 2013 - May 2014]
    - Tutored local high school students in preparation for the mathematics and writing (essay) sections of the SAT and ACT tests.
- **NADG Armor:** Missoula, MT, United States
  - Floor employee [July 2014 - Aug 2014]
    - Disassembled used kevlar (“dragon skin”) vests manufactured by the company and catalogued relevant ballistics data in Microsoft Excel spreadsheets.
- **Saint Patrick’s Hospital:** Missoula, MT, United States
  - Medical physicist intern [Sept 2013 - May 2014]
    - Worked alongside a resident medical physicist in the radiation oncology department of the hospital. Duties included calibrating imaging machinery and learning computer modeling techniques. In addition, understanding of dangerous radioactive substances was necessary.
- **Farmers State Bank:** Missoula, MT, United States
  - Junior board member [Sept 2013 - May 2014]
    - Worked with banking staff at FSB and received technical training in various areas of microfinance, particularly overseeing techniques for loan qualification based on applicant’s credit histories.

## Skills

- Technical skills: Java, Matlab, Python, Mathematica, Sage, L<sup>A</sup>T<sub>E</sub>X, Microsoft Excel
- Other: personal tutoring, public speaking

## Research

- *A Numerical Model of Lake Pollution* (2014): modeled the flow of pollutants within the Midwestern great lakes using discrete dynamical systems.
- Independent study in measure theory and dynamical systems