CURRICULUM VITAE
Andrew Pryhuber

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1 Education

Ph. D., Mathematics

  University of Washington, in progress, expected 2020
  Advisors: Rekha R. Thomas, Sameer Agarwal

B. A., Mathematics

  Bowdoin College, 2015
  Magna Cum Laude

  Advisor: Bill Barker

2 Technical skills

2.1 Programming

- **Matlab** (intermediate) - Designed numerical experiments to compare nonlinear optimization methods. Tested theoretical improvements to existing polynomial system solving packages.

- **C++** (basic) - Prior projects in undergraduate CS courses (2013-2015). Built and trained a single layer neural network to classify images of handwritten digits. Implemented a genetic algorithm to solve MAXSAT problems.

- **LaTeX** (advanced) - 5+ years experience typesetting technical reports.

- **Macaulay2** (intermediate) - Designed computational tools to study algebraic structure in 3D multiview geometry.

2.2 Mathematical interests

- Linear Algebra

- Multiview Geometry

- Nonlinear Optimization

3 Publications

1. Ideals of the Multiview Variety (with S. Agarwal and R. R. Thomas), to appear in IEEE Transactions on Pattern Analysis and Machine Intelligence, *https://arxiv.org/abs/1812.09470*.

4 Employment History

1. **Grader.** Math 407: Linear Optimization, University of Washington, Autumn 2019.

2. **Visiting Researcher. Supervisor: Tomas Pajdla.** Czech Institute of Informatics, Robotics and Cybernetics, Czech Technical University in Prague, Summer 2019.

3. **Grader.** Math 408: Nonlinear Optimization, University of Washington, Spring 2019.

4. **Teaching Assistant.** Math 308: Matrix Algebra and Applications, University of Washington, Winter 2019.

5. **Research Assistant.** University of Washington, Spring - Autumn 2018.

6. **Grader.** Math 408: Nonlinear Optimization, University of Washington, Winter 2018.

7. **Grader.** Math 407: Linear Optimization, University of Washington, Autumn 2017.

8. **Lecturer.** Math 308: Matrix Algebra and Applications, University of Washington, Summer 2017.

9. **Teaching Assistant.** Math 111/112: Algebra with Applications/Application of Calculus to Business, University of Washington, Autumn 2016 - Spring 2017.

10. **Teaching Assistant.** Math 125/126: Integral Calculus/Multivariate Calculus, University of Washington, Autumn 2015 - Summer 2016.

11. **Student Researcher.** Bowdoin College, Summer - Autumn 2014