

# Orton Babb

Falls Church, VA 22046 · 571-346-9168 · [ortonbabb@gmail.com](mailto:ortonbabb@gmail.com)

Objective: *Full-time job seeker looking to leverage background in research towards a Python developer role*

## Education

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| Dec '18 | B.S. Mathematics, <b>George Mason University (GMU)</b> , Fairfax, VA <ul style="list-style-type: none"><li>– Applied concentration with minor in Computer Science</li><li>– Honors Thesis: <i>A Machine Learning Approach to Housing Value Estimation</i></li></ul> |
| May '15 | A.S. Mathematics, <b>Northern Virginia Community College</b> , Annandale, VA <ul style="list-style-type: none"><li>– Magna Cum Laude</li></ul>  |

## Research Internships & Experience

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| <b>Certification</b> | <b>Data Scientist with Python (Datacamp)</b>                                 |
| Jan '19 to Present   | Courses in data importing, cleaning, manipulation, merging and visualization |
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| <b>Research Intern</b> | <b>Mason Experimental Geometry Lab (GMU)</b>  |
| Feb '16 to Dec '18     | <i>College of Science — Department of Mathematics</i> <ul style="list-style-type: none"><li>– Designed components of new algorithm for the dimensionality reduction problem in data science</li><li>– Coded numerically efficient implementations in MATLAB</li><li>– Shared progress with faculty and students in three undergraduate symposiums</li><li>– Delivered poster presentation at the 2019 Joint Mathematics Meetings (Baltimore, Maryland)</li><li>– Received an Outstanding Poster Award from the Mathematical Association of America</li><li>– Supervised by Dr. Tyrus Berry and Dr. Sean Lawton (GMU Mathematics Department)</li></ul> |

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| <b>Research Fellow</b> | <b>“EXTREEMS-GMU” Math and Statistics Training Program</b>  |
| May '17 to May '18     | <i>College of Science — Department of Mathematics</i> <ul style="list-style-type: none"><li>– Performed a study comparing machine learning regression methods for estimating housing prices</li><li>– Published paper on the same topic (SIAM Undergraduate Research Online)</li><li>– Delivered talk at the 2017 Shenandoah Undergraduate Math and Statistics Conference</li><li>– Presented poster at the 2018 Joint Mathematics Meetings (San Diego, California)</li><li>– Received mentorship from Dr. Igor Griva (GMU Mathematics Department)</li><li>– Financially supported under NSF Grant DMS-140708</li></ul> |

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| <b>Instructor</b>  | <b>Mathnasium: The Math Learning Center</b>   |
| Feb '16 to Feb '17 | <i>Falls Church, VA</i> <ul style="list-style-type: none"><li>– Tutored elementary through high school students in foundational, mathematical concepts</li><li>– Administered a customized learning plan following proprietary teaching materials</li><li>– Collaborated in a team of four to support over thirty students per week</li></ul> |

## Skills & Interests

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| Computing   | MATLAB, Python, Pandas, SQL, Java, Tableau, Shell Scripting, git      |
| Soft Skills | Oral/Written Communication, Presentations, Leadership, Teamwork       |
| Interests   | Public Speaking, Travel, Health & Fitness, Reading, Modern Art, Music |