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# Stuart Thomas

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Address: 1731 Winchester Dr  
Winter Park, FL 32789  
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## Education

2017- Present B.S. in Physics (*in progress*)- **William & Mary**  
Expected Graduation: May 23, 2021  
Current GPA: 3.96/4.00

2013-2017 International Baccalaureate Diploma- **Winter Park High School**  
IB Points: 40  
GPA: 4.00/4.00

## Research Experience

May 2018- Present Research Assistant, Condensed Matter Theory Group  
*Dr. Enrico Rossi, Associate Professor of Physics, The College of William & Mary*

- Theoretical analysis of Andreev reflection in metal–superconductor heterojunctions in quantum Hall systems
- Calculation of non-equilibrium transport properties in Josephson junctions

May-August 2019 Quantum Research Intern, Microsoft Quantum – Santa Barbara (Station Q)  
*Dr. Roman Lutchyn, Principal Researcher*

- Created simulations of biased Josephson Junctions in order to study the effects of multiple Andreev reflection
- Studied the effects of disorder on topological phase in a realistic simulated system

## Conference Presentations

March 2019 “Andreev reflection in Graphene–superconductor junctions in the quantum Hall regime”  
J. J. Cuzzo, **S. Thomas**, X. Hu, E. Rossi  
Presented by J. J. Cuzzo at APS March Meeting, Boston, MA

## Work Experience

June-July 2017 Computer Lab Assistant, First Congregational Church of Winter Park

- Instructed children on the use of computer programs such as Photoshop
- Fixed computers when necessary, including restoring hard drives on multiple computers.

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## Activities

Aug 2018- Aug 2019	Vice President, William & Mary Fencing Club <ul style="list-style-type: none"><li>• Manage rosters and membership in multiple national conferences</li><li>• Ensure there are safety officers at club practices and tournaments</li><li>• Manage club webpage and other public profiles</li></ul>
Aug 2019- Present	President, William & Mary Fencing Club <ul style="list-style-type: none"><li>• Manage executive board</li><li>• Organized USFA open tournament with 60 participants</li><li>• Ensure club compliance with college and state policies</li></ul>
Aug 2017- Present	Principal Trombonist, William & Mary Symphony Orchestra <ul style="list-style-type: none"><li>• Play a variety of repertoire holding concerts at least twice a semester</li><li>• Webmaster August 2018 to present, managing the orchestra webpage</li></ul>
Aug 2018- Present	Tutor, Society of Physics Students <ul style="list-style-type: none"><li>• Tutor two students in General Physics per semester</li></ul>
Jan 2018- Present	Member, Syndicate Hip Hop Dance Team <ul style="list-style-type: none"><li>• Perform a hip-hop dance show once a semester</li></ul>
Jan 2018	Successful Participant, COMAP Mathematical Contest in Modeling
Jan 2019	Honorable Mention, COMAP Mathematical Contest in Modeling
2011-	Amateur Programmer <ul style="list-style-type: none"><li>• Developed two iPhone apps (Mowerthon and ByteMachine, since removed) with over 400 downloads</li><li>• Created web application that connected over 200 users from my high school.</li></ul>

## Scholarships & Awards

2017	1693/Stamps Scholarship (merit), William & Mary/National <ul style="list-style-type: none"><li>• full in-state tuition, room and board; \$5000 research stipend</li></ul>
Feb 2019	Recipient of RISE Germany Scholarship (merit), DAAD <ul style="list-style-type: none"><li>• funding to perform research in Germany for a summer (<i>did not accept</i>)</li></ul>
2017	Monroe Scholarship (merit), William & Mary
Fall 2017- Present	Dean's List, William & Mary

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## **Skills**

- Python, Numpy, PyPlot and matplotlib
  - Linux/Unix command line, Git
  - LaTeX
  - Mathematica
  - Web Development (HTML, JS, CSS, PHP, SQL)
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