

Sam Pease

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SUMMARY

Innovative research mathematician with a passion for interconnected areas, such as the Langland Program, which demand proficiency in diverse subjects. Eager to apply my skills in mathematics, coupled with a background in computer science and exceptional communication skills, to a dynamic research role within fields like data science or machine learning. Committed to utilizing my unique perspective as a trans woman to contribute to the development of equitable and inclusive systems.

EDUCATION

Rutgers University-Newark	Expected May 2025
Ph.D. in Mathematics	4.0/4.0 GPA
Research Topics: Langlands Program, Number Theory, Representation Theory	
Duke University	May 2020
B.S. in Mathematics & Computer Science with Distinction	3.7/4.0 GPA
Thesis: <i>Computing Values of Symmetric Square L-Functions using the Pullback Formula.</i>	

RESEARCH EXPERIENCE

PhD Researcher	2020-Present
<i>Rutgers University - Newark</i>	<i>Newark, NJ</i>
<ul style="list-style-type: none">· Lead multi-year independent research project· Cultivate expertise through continuous review of current academic research papers· Collaborate with peers and mentors to communicate complex concepts and advance understanding	
Program for Research for Undergraduates (PRUV) Fellow	2019-2020
<i>Duke Mathematics Department</i>	<i>Duke University</i>
<ul style="list-style-type: none">· Utilized Sage programming to extract data from a database, applying linear algebra techniques to calculate values that were previously theoretical· Presented research at a variety of levels to different audiences	
WindAid Engineering Internship	Summer 2017
<i>International NGO</i>	<i>Trujillo, Peru</i>
<ul style="list-style-type: none">· Conducted research and contributed to design improvements for wind turbines· Designed an Arduino circuit to monitor and report data from remote wind turbine locations	

TEACHING EXPERIENCE

Math Instructor	2017-Present
<i>Duke University & Rutgers Newark</i>	<i>Durham, NC & Newark, NJ</i>
<ul style="list-style-type: none">· Taught Calculus and TAed college algebra, multivariable calculus, and proof based linear algebra· Achieved an above-average pass rate and received excellent reviews from students	
PWild Backpacking Staff	2016-2020
<i>Hiking Pre-orientation Program</i>	<i>Duke University</i>
<ul style="list-style-type: none">· Oversaw the program's medical protocols and training· Delivered backpacking instruction, showcasing outdoor skills and earning the respect of fellow leaders	

RELEVANT SKILLS

- Programming: Python, Sage, Jupyter Notebook, Java, R
- Strong quantitative and problem-solving skills, including the ability to research and learn from others
- Excellent presentation skills, with the ability to simplify and effectively communicate complex ideas