

# SAM PEASE

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## RESEARCH INTEREST

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I am interested in the Langland's program. Specifically I am studying the multiplicity formula for Gan-Gross-Prasad triples for Special orthogonal and Spin groups through a local trace formula.

## EDUCATION

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**Rutgers University-Newark** Fall 2020 - Present

Ph.D. in Mathematics

Thesis Advisor: Chen Wan, Ph.D.

**Duke University** May 2020

B.S. in Mathematics & Computer Science

Thesis: *Computing Values of Symmetric Square L-Functions using the Pullback Formula.*

Thesis Advisor: Aaron Pollack, Ph.D.

Dean's List

Fall 2016, Spring 2017, Spring 2018

Overall GPA: 3.706

## RESEARCH EXPERIENCE

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**Research Independent Study** Fall 2019  
*Duke Mathematics Department* *Duke University*

- Continued previous research under Aaron Pollack
- Used sage programming language to import data from databases and compute values of L-function using previous research
- Wrote thesis entitled "*Computing Values of Symmetric Square L-Functions using the Pullback Formula.*"

**Program for Research for Undergraduates (PRUV) Fellow** Summer 2019  
*Duke Mathematics Department* *Duke University*

- Researched L-functions, Modular forms, related pullback formula, and general number theory.
- Mentored by Aaron Pollack and participated in a 6-week intensive research session
- Presented research at a department hosted talk

**WindAid Volunteer** Summer 2017  
*International NGO* *Trujillo, Peru*

- Conducted research and design for improvements to wind turbines
- Created an arduino circuit to monitor and report data coming from wind turbines in remote locations

## CONFERENCES ATTENDED

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**Masterclass: Relative trace formulae** August 2022  
*University of Copenhagen*

## EMPLOYMENT AND TEACHING EXPERIENCE

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### **Calculus I Professor**

*Rutgers Newark*

Spring 2022

*Newark, NJ*

- Taught Class, answered questions, and held office hours to reinforce learning
- Created lesson plans and Tests and managed homework assignments

### **Teaching Assistant**

*Rutgers Newark*

Fall 2021, AY 2022-2023

*Newark, NJ*

- Led recitation sections and office hours
- Helped students by clarifying concepts and answer questions about the course and precalculus

### **Applied Calculus Professor**

*Rutgers Newark*

Summer 2021, 2023

*Newark, NJ*

- Created lesson plans and managed homework assignments
- Taught students calculus and ran office hours to correct misunderstandings

### **Math Tutor**

*Rutgers Newark Tutoring Center (Virtually)*

AY 2020 - 2021

*Newark, NJ*

- Assisted Vincent Graziano with helping students cement prerequisite material for their math classes
- Helped students with homework questions in calculus and algebra courses

### **Math Tutor**

*Duke Math Help Room*

September 2017 - May 2020

*Durham, NC*

- Assisted in teaching students Linear Algebra and Multivariable Calculus
- Helped students with homework questions for Linear Algebra and Multivariable Calculus
- Answered questions pertaining to Math and Math at Duke
- Tutored students one-on-one outside of the help room

### **PWild Staffer**

*Hiking Pre-orientation Program*

Fall 2016 - Present

*Duke University*

- Taught a semester-long half-credit Duke course that served to educated newer staffers through teaching hiking skills and leadership skills
- Led multi-day hiking trips for incoming students using non-directive leadership style to teach practical skills and outdoor philosophies

## REFERENCES

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### **Chen Wan, Assistant Professor of Mathematics**

Department of Mathematics & Computer Science

Rutgers University – Newark

(612) 323-0079, chen.wan@rutgers.edu

### **Aaron Pollack, Associate Professor of Mathematics**

Department of Mathematics

University of California San Diego

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