

SAM PEASE

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RESEARCH INTEREST

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

Rutgers University-Newark

Fall 2020 - Present

Ph.D. in Mathematics

Thesis Advisor: Chen Advisor, 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

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

Masterclass: Relative trace formulae

August 2022

University of Copenhagen

EMPLOYMENT AND TEACHING EXPERIENCE

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

REFEREES

Chen Wan, Assistant Professor of Mathematics

Department of Mathematics & Computer Science

Rutgers University – Newark

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

Aaron Pollack, Assistant Professor of Mathematics

Department of Mathematics

Duke University

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