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 date 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   Spring 2022
Rutgers Newark   *Newark, NJ*

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

Teaching Assistant   Fall 2021, AY 2022-2023
Rutgers Newark   *Newark, NJ*

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

Applied Calculus Professor   Summer 2021, 2023
Rutgers Newark   *Newark, NJ*

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

Math Tutor   AY 2020 - 2021
Rutgers Newark Tutoring Center (Virtually)   *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   September 2017 - May 2020
Duke Math Help Room   *Durham, NC*

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

PWild Staffer   Fall 2016 - Present
Hiking Pre-orientation Program   *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

Chen Wan, Assistant Professor of Mathematics
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Aaron Pollack, Associate Professor of Mathematics
Department of Mathematics
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