Carlo Francisco "Paco" E. Adajar

University of Georgia Department of Mathematics Athens, GA 30602

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Research Interests —

Number theory, especially analytic and elementary.

Education —

University of Georgia

M.S. Mathematics

January 2021-present

Ph.D. Candidate Adviser: Paul Pollack

University of the Philippines Diliman

June 2013–December 2020

July 2016

Adviser: Richell O. Celeste

Thesis: On odd near-perfect and deficient-perfect numbers with k distinct prime divisors

Ateneo de Manila University

B.S. Applied Mathematics, Major in Mathematical Finance

March 2013

Work Experience —

University of Georgia

Graduate Teaching Assistant January 2021-present

Ross Mathematics Foundation

Counselor, Ross Mathematics Program June 2023-July 2023

Mathematical Society of the Philippines

Test Development Committee, Philippine Mathematical Olympiad 2016-present Observer B, Philippine Team to the International Mathematical Olympiad 2018 Deputy Team Leader, Philippine Team to the International Mathematical Olympiad 2020

University of the Philippines Diliman

Lecturer, Institute of Mathematics August 2020–December 2020 Instructor, Institute of Mathematics August 2016–July 2020

PAREF Southridge School

Consultant, Mathematics Department November 2013-March 2015

Mathematics Trainers' Guild of the Philippines

Trainer, Mathematical Olympiad Summer Training Program April 2012–May 2012

Ateneo de Manila High School

Student Trainer, Department of Mathematics August 2011–January 2012

Ateneo de Manila Grade School

Student Trainer, Department of Mathematics August 2010–January 2011

Teaching Experience —

2021-present
Fall 2021
Spring 2022
Fall 2022
Spring 2023

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Spring 2023
2016–2020
1st Semester 2016-2017
1st Semester 2016-2017
2nd Semester 2016-2017
2nd Semester 2016-2017
Midyear 2017
1st Semester 2017-2018
1st Semester 2017-2018
2nd Semester 2017-2018

1st Semester 2018-2019
1st Semester 2018-2019
2nd Semester 2018-2019
2nd Semester 2018-2019
Midyear 2019
Midyear 2019
1st Semester 2019-2020
1st Semester 2019-2020
1st Semester 2019-2020
1st Semester 2020-2021
1st Semester 2020-2021

Books

Institute of Mathematics, University of the Philippines Diliman. *Mathematics 21: Elementary Analysis I Course Module*. (2018) (editor)

E. P. Bautista and I. J. L. Garces. "Mathematical Excursions: A Problem-Solving Primer for Trainers and Olympiad Enthusiasts." C&E Publishing. (2010) (proofreader)

Selected Talks and Presentations

Denser Egyptian fractions

Graduate Student Seminar, UGA September 2022

On statistical properties of prime-divisor counting functions

Mock AMS, UGA August 2022

The worst way to find the area of a circle

Graduate Student Seminar, UGA March 2022

Perfectly imperfect: on odd near-perfect, deficient-perfect, and spoof-perfect numbers

Graduate Student Seminar, UGA February 2021

On odd near-perfect and deficient-perfect numbers

ZetaValue2019, Wako, Saitama, Japan March 2019

Perfect, near-perfect, and deficient-perfect numbers

2016 MSP-NCR First Lecture Series September 2016

On odd near-perfect and deficient-perfect numbers with k distinct prime divisors (with Richell O. Celeste)

Poster presented at: 2016 Asian Mathematical Conference

July 2016

On odd near-perfect and deficient-perfect numbers with k distinct prime divisors

2016 MSP Annual Convention May 2016

Conferences and Research Schools Attended

INTEGERS 2023

University of Georgia, Athens, GA

May 17-20, 2023

CTNT 2022

University of Connecticut, Storrs, CT

June 6-12, 2022

100 Years of Mock Theta Functions: New Directions in Partitions, Modular Forms, and Mock Modular Forms

Vanderbilt University, Nashville, TN

May 22-23, 2022

CIMPA School on Group Actions in Arithmetic and Geometry

Universitas Gadjah Mada, Yogyakarta, Indonesia

February 17–28, 2020

Value Distribution of Zeta and L-Functions and Related Topics

Riken, Wako, Saitama, Japan

March 22–26, 2019

VIASM Summer School in Number Theory

Vietnam Institute for Advanced Study in Mathematics, Hanoi, Vietnam

June 18–24, 2018

SEAMS School 2017 Manila: Topics on Elliptic Curves University of the Philippines Diliman, Quezon City, Philippines July 16–25, 2017

2016 Asian Mathematical Conference

Bali, Indonesia July 25–29, 2016

2016 MSP Annual Convention Cebu, Philippines May 30–31, 2016

Mentoring -

Thesis (co-)adviser (at University of the Philippines Diliman)

Allan James Acong (with Jerome T. Dimabayao) (B.S. Mathematics, 2019) Mark Joshua Bricenio (with Jerome T. Dimabayao) (B.S. Mathematics, 2019)

Undergraduate mentoring (through the UGA Department of Mathematics Directed Reading Program)

Nicholas Follo (Fall 2021)

Cooper Clickner (Spring 2022)

Maximilian Bennett (Summer and Fall 2022)

Abbie Ottosen (Spring 2023)

Service and Extension -

Co-organizer and question writer for the UGA High School Math Tournament since 2021.

Co-organizer of the Mathematics Directed Reading Program (DRP) at UGA since Summer 2022.

Peer mentor for first-year graduate students at UGA in 2022.

Secretary of the AMS Graduate Student Chapter at UGA from 2021–2022.

Co-organized the SEAMS School Manila: Topics on Elliptic Curves held at the University of the Philippines Diliman in 2017.