

Pin Hung (Chris) Kao

Department of Mathematics & Technology
Flagler College
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Citizenships: U.S.

EMPLOYMENT

Flagler College

Assistant Professor

August 2018

Visiting Assistant Professor

August 2017–Present

Central Michigan University

Fixed term faculty in Mathematics

August 2016–December 2016

Alpena Community College

Adjunct instructor in Mathematics

August 2007–May 2009

Alpena County George N. Fletcher Public Library

Special collection data analyst

April 2006–August 2007

EDUCATION

Ph.D. in Mathematics: Teaching College Mathematics, Central Michigan University, August 2016

Advisor: Sidney Graham

Dissertation: A lower bound double sieve method and almost-prime polynomials at prime arguments

B.Sc. with Advanced Major in Mathematics, Dalhousie University, October 2004

RESEARCH INTERESTS

Analytic and computational number theory; frame theory

PUBLICATIONS AND PREPRINTS

— **Almost-prime polynomials at prime arguments**

Journal of Number Theory **184** (2018), 85–106

— **Betti tables of reducible algebraic curves**

Proceedings of the American Mathematical Society **142** (2014), 4039–4051

Joint work with D.J. Bruce, E. Nash, B. Perez, and P. Vermeire.

HONORS AND AWARDS

- Departmental Research Assistantship, Central Michigan University, Fall 2015
- Graduate College Fellowship, Central Michigan University, Fall 2014
- Nominee for Central Michigan University to participate in the Midwestern Association of Graduate Schools Excellence in Teaching Award, Spring 2014
- Departmental Research Assistantship, Central Michigan University, Fall 2013
- Departmental Outstanding Teaching Assistant Award, Central Michigan University, 2012
- Departmental Research Assistantship, Central Michigan University, Fall 2011
- Departmental Outstanding Tutoring Award, Central Michigan University, 2011
- Meritorious Winner, Mathematical/Interdisciplinary Contest in Modeling, 2003

TEACHING EXPERIENCE

Flagler College

- Statistics, Spring 2018
- Calculus II, Fall 2017, Spring 2018
- Intermediate Algebra, Fall 2017, Spring 2018

Central Michigan University

- Business Calculus, Spring 2012, Fall 2016
- Linear Algebra and Differential Equations, Fall 2016
- Pre-calculus, Spring 2016, Fall 2012
- Introduction to Mathematical Proof, Spring 2014
- Linear Algebra & Matrix Theory, Spring 2013, Fall 2016
- Trigonometry, Spring 2011
- College Algebra, Fall 2010, Spring 2010
- Intermediate Algebra, Fall 2009

Alpena Community College

- Elementary Algebra, Spring 2009, Fall 2007
- College Algebra, Fall 2008

CONFERENCES AND WORKSHOPS

- Invited participant, Recent developments in Analytic Number Theory, Mathematical Sciences Research Institute, May 01-05 2017.
- 2016 MAA Michigan Section Meeting, Hillsdale, MI, April 2016
- Joint Mathematics Meeting, Seattle, January 2016
- New Geometric Techniques in Number Theory, MSRI Summer Graduate School, Mathematical Sciences Research Institute, July 2013.
- Conversations among Colleagues, Central Michigan University, March 2013.
- Further Connections Between Algebra and Geometry, North Dakota State University, February 2013.
- Sage Days 22: Computing with Elliptic Curves, MSRI Summer Graduate School, Mathematical Sciences Research Institute, June 2010.
- Illinois Number Theory Conference, University of Illinois at Urbana-Champaign, May 2010.

PRESENTATIONS AND TALKS

- *What is a sieve and what can you do with it?*, Eastern Michigan University, February 2018.
- *Polynomails at Prime Arguments*, Winthrop University, November 2017.
- *On Polynomials at Prime Arguments*, MAA Michigan Section Meeting, April 2016.
- *A Modified Selberg's Lower Bound Sieve and Its Applications*, Joint Mathematics Meeting, January 2016.
- *A Weighted Sieve of Laborde's*, Graduate Student Seminar, Central Michigan University, Fall 2015.
- *When Number Theory Meets Probability Theory*, AMS Graduate Student Chapter Meeting, Central Michigan University, Fall 2015.
- *An Overview of the Langlands Program*, Graduate Student Seminar, Central Michigan University, November 2013.
- *Artin's Reciprocity Law and the Class Field Theory*, CMU Algebra Learning Seminar, Central Michigan University, October 2013.
- *An Introduction to Elliptic Curves*, CMU Algebra Learning Seminar, Central Michigan University, April 2013.
- *A Gentle Introduction to Projective Spaces*, CMU Algebra Learning Seminar, Central Michigan University, September 2012.
- *Gauss and the Roots of Unity*, Number Theory Seminar, Central Michigan University, March 2012.
- *Sage: An Open Source Alternative to Ma^** , Graduate Student Seminar, Central Michigan University, November 2011.
- *Sage Days 22: Computing with Elliptic Curves*, Graduate Student Seminar, Central Michigan University, September 2010.
- *On A Question Concerning Pairs of Integers that are Coprime*, Graduate Student Seminar, Central Michigan University, Spring, 2010.

PROFESSIONAL SERVICES AND MENTORING

- Referee, the American Mathematical Monthly, November 2017–Present.
- Grader, Michigan Math Prize Competition, January 2017.
- Vice president, American Mathematical Society Graduate Student Chapter at Central Michigan University, Fall 2015–May 2016.
- Co-organizer, Number Theory Seminar, Central Michigan University, Fall 2014–Spring 2015.
- Co-organizer, with Susan Cooper (Fall 2012–present) and Jeffrey Fujioka (Fall 2012–Spring 2013), CMU Algebra Learning Seminar, Central Michigan University, Fall 2012–present.
- Graduate assistant for the departmental Graduate Teaching Assistant Workshop, Central Michigan University, August 2015, August 2014, August 2013, August 2012
- Graduate assistant for Peter Vermeire’s Research Experience for Undergraduate program, Central Michigan University, June–July 2012.

PROFESSIONAL AFFILIATIONS

- American Mathematical Society, 2009–2016.

REFERENCES

- Chin-Yi Jean Chan, **Central Michigan University**
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989-774-3688
- Sidney Graham, **Central Michigan University**
sidney.w.graham@cmich.edu
- Meera Mainkar, **Central Michigan University**
maink1m@cmich.edu
989-774-3156
- Brad Safnuk, **Central Michigan University**
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989-774-6518