

# Ana Catalina CAMACHO-NAVARRO

## PERSONAL DATA

---

PLACE AND DATE OF BIRTH: Costa Rica | July 29th 1988  
ADDRESS: Fort Collins, CO  
PHONE: (970) 412 6531

## EDUCATION

---

CURRENT Graduate Student in Mathematics, Phd Program, **Colorado State University**.  
GPA: 4.00/4.00

JULY 2016 Ms in Mathematics, **Colorado State University**.  
GPA: 4.00/4.00

JULY 2011 Licenciatura in Mathematics Education, **Universidad de Costa Rica**.  
*Honours Graduate*  
Graduation Project: “Contributions to teaching and learning of mathematical topics for the development of complex thinking using ICT. ” | Advisor: Prof. Javier TREJOS, Phd.  
GPA: 9.10/10.0.

## RESEARCH EXPERIENCE

---

BANK, Efrat. & CAMACHO-NAVARRO, C. & EISENTRAEGER, Kirsten. & MORRISON, Travis. & PARK, Jennifer. (2018) “Cycles in the supersingular  $\ell$ -isogeny graph and corresponding endomorphisms”, Preprint.

BARRANTES, J. & CAMACHO-NAVARRO, C. & MONGE, J. & MORA, L.F. & MORA, A. & VÍQUEZ, H. (2012) “Contributions to teaching and learning of mathematical topics for the development of complex thinking using ICT. ” Licenciatura Graduation Project, San Jose, Costa Rica. Advisor: Prof. Javier TREJOS, Phd.

## CONFERENCE TALKS

---

CAMACHO-NAVARRO, C. & BANK, Efrat. & EISENTRAEGER, Kirsten. & PARK, Jennifer. “Endomorphism rings of supersingular elliptic curves and  $\ell$ -isogeny graphs”, WIN4 (August 2017) Banff Center, Alberta, Canada.

CAMACHO-NAVARRO, C. & BARRANTES, J. & MONGE, J. & MORA, L.F. & MORA, A. & VÍQUEZ, H.: “Contributions to teaching and learning of mathematical topics for the development of complex thinking using ICT. ” Paper presentation, XVIII SIMMAC (February 2012) San Jose, Costa Rica.

## GRADUATE STUDENT SEMINARS

---

CAMACHO-NAVARRO, C.: “Composite images of Galois for Elliptic Curves” Splinter Graduate Student Seminar (February, 2018) Colorado State University.

CAMACHO-NAVARRO, C.: “Quaternion Algebras and Supersingular Elliptic Curves” Splinter Graduate Student Seminar (October, 2017) Colorado State University.

CAMACHO-NAVARRO, C.: “Finding Rational Points on Curves” Greenslopes Graduate Student Seminar (October, 2017) Colorado State University.

CAMACHO-NAVARRO, C.: “Algebraic curves of genus  $\leq 4$ ” Greenslopes Graduate Student Seminar (September 2016) Colorado State University.

## EXPERIENCE

---

MAY 2018    GTA at Colorado States University, Department of Mathematics  
JAN 2018    MATH 340.

DEC 2017    Research Assistant, Progress through Calculus (PtC, NSF DUE  
MAR 2017    1430540) Data collection during sites visits.

MAY 2017    GTA at Colorado States University, Department of Mathematics  
AUG 2014    Taught MATH 155, MATH 105, MATH 340.

JUL 2014    Coordinator for the Mathematics Education Major at the Atlantic Campus, Universidad de Costa Rica.

JAN 2012    Scheduled and organized the courses corresponding to the mathematics teaching career, advised students about academic matters.

JUL 2014    Instructor at Universidad de Costa Rica.  
MAR 2010    Taught undergraduate Mathematics courses on geometry, pre-calculus and calculus.

DEC 2009    Teaching Assistant at Universidad de Costa Rica.  
MAR 2007    Worked with teachers on undergraduate courses in geometry, elementary algebra, discrete mathematics and calculus and pre-calculus. Tasks included grading quizzes and tutoring.

## WORKSHOPS AND CONFERENCES

---

- JUN 2017 Mathematics is a long conversation: a celebration of Barry Mazur, Harvard University, Cambridge.
- APR 2018 Arithmetic of Algebraic Curves, University of Wisconsin-Madison, Madison.
- MAR 2018 Arizona Winter School. University of Arizona, Tucson.
- AUG 2017 Women in Numbers 4, Project: “Computational aspects of supersingular elliptic curves” Banff Centre, Albert, Canada.
- JULY 2017 Conference on Aspects of the Arithmetic and Algebraic Theory of Quadratic Forms, University of Georgia, Athens.
- MAY 2017 Graduate Workshop on Composite Level Images of Galois at Emory University, Atlanta.
- FEB 2017 RCT Lectures in Arithmetic Geometry at Rice, Rice University, Houston.
- OCT 2016 Western Algebraic Geometry Symposium, Colorado State University, Fort Collins.
- AUG 2016 West Coast Algebraic Topology Summer School on the interplay between homotopy theory and number theory, University of Oregon, Eugene.
- OCT 2015 Western Algebraic Geometry Symposium, University of Washington, Seattle.
- JUN 2015 Geometric Group Theory summer graduate school, MSRI.
- MAY 2015 Women and Mathematics Program: Algebraic Geometry, IAS.

## UNIVERSITY SERVICE

---

- AUG 2018 President, Latin American Scholars and Students Organization, CSU.
- OCT 2015 (*Financial Officer until August 2016*)
- NOV 2017 Volunteer Math Day, CSU.
- OCT 2017 Volunteer: Math Science and Technology Day, CSU.

## LANGUAGES

---

- ENGLISH: Fluent
- SPANISH: Mother tongue

## COMPUTER SKILLS

---

Magma Computer Algebra System,  $\text{\LaTeX}$ .