

Richard Klevan MA

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925-330-6791

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Education

- **University of California Santa Cruz** Santa Cruz, USA
Advanced Graduate Coursework in Mathematics September 2015 - June 2018
- **San Diego State University** San Diego, USA
M.A. Mathematics August 2013 - May 2015
- **University of California Berkeley** Berkeley, USA
B.A. Mathematics August 2007 - May 2011

Awards& Honours

UC Berkeley Regents and Chancellors Scholarship 2007-2011
Cal Alumni Leadership Award 2007
National Merit Scholarship Finalist 2007

Work Experience

- **University of California Santa Cruz** Santa Cruz, CA
Teaching Assistant and PhD student September 2015 - March 2018
1156 High St
Santa Cruz, CA 95064

HOURS/WEEK: 20 SUPERVISOR NAME: *Dr. Frank Bauerly*

SALARY: 2100/MO SUPERVISOR CONTACT: (831) 459-2969 bauerle@ucsc.edu

Taught undergraduate mathematics sections in differential and integral calculus, linear algebra and precalculus both in class and online. Responsibilities included leading problem solving sections, writing, administering and grading quizzes, grading exams, holding office hours and ensuring student comprehension while upholding the high standards of the University of California.

- **San Diego State University** San Diego, CA
Teaching Assistant and Graduate Student August 2013 - May 2015
5500 Campanile Dr
San Diego, CA 92182

HOURS/WEEK: 20 SUPERVISOR NAME: *Dr. J. Carmelo Interlando*

SALARY: 2400/mo SUPERVISOR CONTACT: (619) 594-7237 carmelo.interlando@sdsu.edu

Taught problem solving sections for undergraduate differential and integral calculus courses. Responsibilities included leading problem solving sections, writing, administering and grading quizzes, grading exams, holding office hours and ensuring student comprehension.

Research: Conducted original research on the topic of integral trace forms in cyclotomic fields leading to a solution to a special case of the shortest vector problem, a classical problem in number theory.

- **Harvard Square Academy (HS^2)**

Instructor

Pleasanton, CA

January 2012 - July 2013

5690 Stoneridge Dr
Pleasanton, Ca 94588

Hours/week: 35 SUPERVISOR NAME: Mr. Pan

Salary: 25/hr Supervisor Contact: 925-460-9888 pleasanton@hs2academy.com

Taught all of the mathematics courses offered at the Pleasanton Branch of HS^2 including Algebra, Precalculus and Calculus AB/BC. I also taught standardized test preparation courses in SAT Quantitative Reasoning and SAT2 Math II, achieving a median score increase of over 300 points over the course of ten weeks. An important component of my job at HS^2 was communicating and coordinating with parents and guidance counselors to ensure student success.

- **Huntington Learning Center**

Instructor and Tutor

Walnut Creek, CA

July 2011 - January 2012

2050 N Broadway
Walnut Creek, Ca 94596

HOURS/WEEK: 15 SUPERVISOR NAME : *Carol Krupp*

SALARY: 12/hr SUPERVISOR CONTACT: Branch Location Closed

Responsibilities included privately tutoring students in a one on one setting in mathematics and occasionally using Huntington curriculum as supplementary material.

- **Mathnasium**

Instructor

Lafayette, CA

June 2011- August 2012

9435 Mt. Diablo Blvd
Lafayette, Ca 94549

HOURS/WEEK : 15 SUPERVISOR NAME : *Ara Chakrabarti*

SALARY: 11/hr SUPERVISOR CONTACT: (925) 462-8411 pleasanton@mathnasium.com

Tutored students in mathematics using Mathnasium curriculum.

Research Experience

While earning my Master's degree in mathematics at San Diego State University, I spent two years as a graduate student researcher, conducting original mathematical research in algebraic number theory. A major component of my research was the development of new mathematical methods for solving a variety of problems related to trace forms, lattice theory and sphere packings—the scientific and engineering applications of this research having important implications for the future of quantum cryptography.

Dissertation: The Integral Trace Form in Cyclotomic Fields

Advisor: J. Carmelo Interlando PhD

Abstract: In this work the integral trace form of cyclotomic fields is investigated. We first show that the formula in the general case, that is, cyclotomic fields of any conductor, can be reduced to the case where

the conductor is square-free. As corollaries, we obtain: 1) a symmetric polynomial representation of the form in cyclotomic fields of prime conductor (a result earlier obtained by Interlando) and 2) the form in the case of cyclotomic fields of prime power conductor. We then use the latter form to produce a succinct algorithm for computing the nonzero minimum of the form within a certain submodule of the ring of integers of the cyclotomic field. One of the applications of this is in finding the shortest (nonzero) vector of a lattice, a classical problem in geometry of numbers.

Professional References

- J. Carmelo Interlando PhD (Thesis Advisor)
J. Carmelo Interlando PhD Professor of Mathematics
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- Ara Chakrabarti (former Employer)
Mathnasium 915 Main St, D,
Pleasanton CA 94566
phone: (925) 462-8411
email: pleasanton@mathnasium.com
- Ryan Alexiadis
Former student at UCSC
Graduated with degree in pure math in 2016
phone: (661) 916 - 3285