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Megan Martinez

Curriculum Vitae

EDUCATION

Dartmouth College

Advisor: Sergi Elizalde
M.A., Mathematics

Fall 2010 – Present

June 2012

Saint Olaf College

B.A., Mathematics & Music, Magna Cum Laude,
Phi Beta Kappa

Fall 2006 – Spring 2010

May 2010

TEACHING EXPERIENCE

Instructor: Dartmouth College

Math 3: Introductory Calculus

Math 2: Calculus with Algebra and Trigonometry

Winter 2014

Winter 2013

Teaching Assistant: Dartmouth College

Math 10: Elementary Statistics

Math 13: Multivariable Calculus

Math 13: Multivariable Calculus

Math 3: Calculus

Spring 2012

Fall 2011

Winter 2011

Fall 2010

Workshop Leader: Johns Hopkins Center for Talented Youth Family
Academic Program. Co-designed and led 3 one-hour
workshops.

May 2013

HONORS & AWARDS

Funding at Dartmouth College

Dartmouth College Graduate Fellowship

GK-12 Fellowship

GAANN Fellowship

Sept. 2011 – 2012, 2013 – present

Sept. 2012 – 2013

Sept. 2010 – 2011

Saint Olaf College

Awarded with Distinction in Mathematics

Phi Beta Kappa

Presidential Scholarship

May 2010

May 2010

Sep. 2006 – May 2010

RESEARCH & SEMINAR PRESENTATIONS

Women in Mathematics in New England, Smith College

The “Fair” Stock Market and Probabilities of Pattern Occurrence

Sep. 21, 2013

Graduate student seminar, Dartmouth College

Enumeration of Simple Permutations

Asymptotic Enumeration and Generalized Patterns

Aug. 30, 2013

Nov. 12, 2012

PROFESSIONAL DEVELOPMENT & MEMBERSHIP

Dartmouth Mathematics Department Teaching Seminar

Summer 2012

An intensive summer-long course designed to prepare mathematics graduate students to teach their own courses. Topics and activities included:

- Studied pedagogical theory on writing to learn mathematics, crafting learning outcomes, teaching students with different learning styles, diversity in the classroom, writing a lesson plan, and public speaking and lecturing skills
- Designed and taught two one-week mathematics camps for high schoolers
- Taught two class meetings of a Dartmouth course (Math 1: Calculus with Algebra)
- All teaching experiences were observed by Dartmouth faculty members

GK-12 Fellowship

Aug. 2012 – June 2013

A program which provides funding and support for graduate students in STEM fields to work with local middle school teachers to develop inquiry-based activities designed to increase students' understanding of and interest in science and mathematics.

- Collaborated with middle school math teacher (Partner Teacher) and taught middle school students (6-8 grade)
- Worked with Partner Teacher to develop and improve math curriculum that incorporates activities that foster creativity and communication
- Participated in GK-12 seminars designed to improve lesson design, classroom control, creativity, and professional development

Dartmouth Center for the Advancement of Learning

"Asking the Right Questions" (1 session)

Nov. 2012

Teaching Series (6 sessions)

July 2012

Communicating your Research (3 sessions)

Feb. – Mar. 2013

AMS, AWM

2008 – Present

UNDERGRADUATE RESEARCH

Director's Summer Program – National Security Agency

June 2009 – Aug. 2009

- Worked on Top Secret problems requiring linear algebra and combinatorics
- Co-authored a technical paper internally published at NSA
- Briefed Director Lieutenant General Keith Alexander
- Presented at the institute for Defense Analyses at the Center for Communications Research at Princeton

Research Experience for Undergraduates – University of Wisconsin, Eau Claire (SUREPAM)

June 2008 – Aug. 2008

- Worked with the representation of the Symmetric Group on polynomials with n variables

REFERENCES

Available upon request