Kaitlyn Gingras

EDUCATION

University of Connecticut, Storrs, CT
Master of Science in Mathematics; May 2009
Passing Scores on Qualifying Exams: Numerical Analysis – Ph. D. Level
Measure Theory – Master's Level

Western New England College, Springfield, MA
Bachelor of Arts in Mathematics; May 2007
Minor: Computer Science

HONORS/AWARDS

Western New England College

- *Allen E. Anderson Award* – Top Mathematics graduate demonstrating potential for graduate study; as well as service to the field
- *Magna Cum Laude* – Overall GPA between 3.60 and 3.80
- *Alpha Lambda Delta* – Freshman Honor Society
- *Dean's List* – Fall 2003; Spring & Fall 2004; Spring 2005; Spring 2006
- *President's List* – Fall 2005; Fall 2006; Spring 2007

PROFESSIONAL EXPERIENCE

Director of the Aetna Quantitative Center and Lecturer in Mathematics **July 2014-Present**
Trinity College – Hartford, CT

- Oversee the staffing and content of all courses within the Center
- Manage the Center's tutoring program
- Administer the QL proficiency/math placement exam and oversee placement into QLIT 101
- Assess the effectiveness of QLIT 101 in preparing students for success
- Teach three courses per year for the mathematics department

Coordinator of Mathematics and Computer Science **January 2012-June 2014**
Manhattanville College – Purchase, NY

- Plan, direct, and coordinate programs to enhance student achievement in the fields of mathematics and computer science
- Recruit, train, develop, and evaluate professional and student staff for all subject areas
  - Supplemental Instruction Program – 30-40 student leaders each semester
  - Peer Tutors – 30-40 tutors each semester
  - Professional Tutors – 2-3 tutors each semester
- Conduct individual and group mathematics tutoring sessions
- Work with Mathematics and Computer Science department in developing campus improvement in mathematics and computer science by staying abreast of curriculum changes and implementation of new technology
- Develop and review on going assessment of services in order to analyze and ensure success of students receiving services
- Develop and present workshops in mathematics to improve and support retention in mathematics courses

Professional Tutor **Fall 2010-Fall 2011**

University of New Haven – West Haven, CT

- Tutor all mathematics courses from Algebra to Calculus III
- Develop and execute successful Algebra Workshop

Math Center Assistant **Summer 2006-Summer 2011**

Western New England College

- Assistant to the Director of the Math Center
- Analyzed math placement exam results for incoming freshman and transfer students
- Created and maintained an Excel database with accurate records of placement scores; in addition to course recommendations for over 800 students
- Assisted in developing new placement exam using Maple TA software
- Generated and maintained Math Majors Handbook
- Responsible for maintaining Math Center webpage
- Designed display posters for Math Department

Disability Services Assistant **Summer 2009**

Western New England College

- Proofread and made mathematics textbook accessible for blind student
- Utilized LaTeX, a mathematical typesetting program

Mathematics Tutor **Spring 2008 & Fall 2008**

University of Connecticut

- Tutor Calculus courses for Quantitative Learning Center

TEACHING EXPERIENCE

Mathematics Adjunct Faculty **Fall 2012; Fall 2013; Spring 2014**

Manhattanville College – Purchase, NY

- **Spring 2014:** *Math 1006 – Math for Liberal Arts* 27 Students
  - **Topics:** Graph Theory, probability, linear programming, financial math, and error and coding.
- **Fall 2013**: *MATH 1012 – PreCalculus* 24 Students
  - **Topics:** Algebra and functions, including exponential, logarithmic, and trigonometric functions.
- **Fall 2012**: *MATH 1006 – Math for Liberal Arts* 25 Students
  - **Topics:** Graph theory, probability, linear programming, error and coding, and scientific notation.

Mathematics Adjunct Faculty **Fall 2009-Fall 2011**

University of New Haven – West Haven, CT

- **M 109** – *Intermediate Algebra*
  - **Fall 2011**: *Four Sections* 90 Students
    - Promoted to Practitioner in Residence
  - **Spring 2011:** *Two Sections* 50 Students
  - **Fall 2010:** *Two Sections* 45 Students
  - **Spring 2010:** *Two Sections* 48 Students
  - **Fall 2009:** *Three Sections* 65 Students
  - **Topics:** A review of the fundamental operations and an extensive study of functions, exponents, radicals, linear and quadratic equations. Additional topics include ratio, proportion, variation, progression and the binomial theorem.

Mathematics Adjunct Faculty **Fall 2009-Fall 2011**

Middlesex Community College – Middletown, CT

- **Fall 2011:** *MAT 075 – Pre-Algebra, Number Sense, Geometry* 21 Students
- **Fall 2011:** *MAT 095 – Elementary Algebra Foundations* 15 Students
- **Spring 2011:** *MAT 137 – Intermediate Algebra* 30 Students
- **Spring 2011:** *MAT 075 – Pre-Algebra, Number Sense, Geometry* 7 Students
- **Fall 2010:** *MAT 137 – Intermediate Algebra* 30 Students
- **Spring 2010:** *MAT 137 – Intermediate Algebra* 24 Students
  - **Topics**: Factoring; rational functions, expressions and equations; radical functions, expressions and equations; an introduction to complex numbers; and quadratic functions and equations.
- **Fall 2009:** *MAT 075 – Pre-Algebra, Number Sense, Geometry* 24 Students
  - **Topics**: A course which emphasizes the understanding of the basic concepts and skills of arithmetic.
- **Fall 2009**: *MAT 095 – Elementary Algebra Foundations* 22 Students
  - **Topics**: An introductory course in the basics of algebra.

Teaching Assistant **Fall 2007-Spring 2009**

University of Connecticut

- Created and delivered lesson plans; created, administered, and graded exams/quizzes; provided effective classroom management; provided office hours and facilitated exam review sessions.
- **Spring 2009:** *Math 107Q – Elementary Mathematical Modeling* 33 Students
  - **Topics**: Use of algebraic functions with technology to analyze quantitative relationships and illustrate the role of mathematics in modern life; using graphical and symbolic methods.
- **Fall 2008:** *Math 113Q – Introductory Calculus II* 30 Students
  - **Topics**: Optimization Problems, Newton's Method, Antiderivatives, Reimann Sums, Fundamental Theorem of Calculus, Integrals.
- **Spring 2008:** *Math 113Q – Introductory Calculus II (Two Sections)* 25 Students
  - **Topics**: Optimization Problems, Newton's Method, Antiderivatives, Reimann Sums, Fundamental Theorem of Calculus, Integrals.
- **Fall 2007:** *Math 105Q – Mathematics for Business (Two Sections)* 62 Students
  - **Topics**: Linear equations and inequalities, exponents and logarithms, matrices and determinants, linear programming; applications.

PROFESSIONAL CONFERENCES ATTENDED

- *6th Regional Conference on Supplemental Instruction* *May 2013*
  - Texas A&M University, College Station, TX
- *Supplemental Instruction Supervisor Training* *May 2012*
  - University of Missouri, Kansas City, MO
- *Northeast Consortium for Quantitative Literacy* *March 2009*
  - Smith College, Northampton, MA

RELATED TECHNOLOGY

- Moodle
- Blackboard
- LaTeX
- MyMathLab and WebAssign
- Microsoft Office Software
- wxMaxima
- Maple
- Java Programming