

# JULIA LYNN CLAIRE TUFTS

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## Education:

September 2009 – May 2014

**Dalhousie University**  
Halifax, Nova Scotia  
Bachelor of Science Combined Honours degree,  
Mathematics and Music  
GPA: 4.17

## Work Experience:

September 2013 – Present

**Instructor - NS Math Circles**  
Travelled to high schools and middle schools across NS to give fun and interactive presentations on a variety of math topics

May 2013 – Present

**Teaching Assistant - Dalhousie Mathematics and Statistics Department**  
Prepared and gave one hour tutorials for first year calculus (Math 1000, Fall 2013). Marked for various courses including linear algebra and intermediate calculus

May 2012 – August 2012

**Research Assistant - Dalhousie Mathematics and Statistics Department**  
Performed research in graph theory with Dr. Jason I. Brown as a recipient of an NSERC Undergraduate Student Research Award, culminating in a paper published by the journal Graphs and Combinatorics

## Programming Experience:

120 hours

**Java**  
Worked on small projects and studied the principles of object oriented programming as part of Computer Science I & II at Dalhousie

50 hours

**Unity & C#**  
Participated in Halifax Game Jam 2013, coding for the game Heritage Quest. Recently started developing an educational math game as an independent project

45 hours	<b>Maple</b> Developed tools and algorithms to investigate graph theory problems in my NSERC research, as well as my honours thesis
40 hours	<b>Python</b> Independently learned the fundamentals of programming in Python, and made a few small games and demos using Pygame

### **Academic Awards (selected):**

Dalhousie University	Ralph and Frances Lewis Jeffery Scholarship in Mathematics Graduating class prize for highest academic achievement during first three years of the honours program William Tritt Recital Prize Awarded to the piano student who has demonstrated the highest level of performance on his/her third year or graduation recital James & Abbie Campbell Prize Graduating class prize awarded for outstanding achievement in music Faculty of Science Dean's List (2010-2014) Renewable Scholarship - \$16 000 (2010-2013)
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### **Music Awards and Distinctions:**

May 2013	Participant of the Scotia Festival of Music Young Artist Program and recipient of the William Tritt/Scotia Festival Memorial Prize
September 2012 – April 2013	2012 Nova Scotia Youth Orchestra concerto competition winner. Performed Beethoven piano concerto no.3 in two concerts in April, 2013
February 2012, February 2013	Two time featured soloist in Dalhousie University's Concerto Night

### **References:**

Dr. Jason I. Brown (902-494-7063)  
Professor of Mathematics,  
Dalhousie University, Halifax

Danielle Cox (902-494-7036)  
NS Math Circles Program Director & PhD  
Dalhousie University, Halifax