

## Teaching Experience

August 2017 - present

Mathematics, Computer Studies

*Lakefield College School (Independent)*

- Integrated AP Computer Science Principles and Grade 12 Computer Science (ICS4U) and led project-based classes in grades 10 and 11 (ICS2O, ICS3U).
- Co-developed spiralled curriculum to facilitate a portfolio and mastery-based approach to student learning in Grade 11 Functions (MCR3U).
- Led inquiry-driven classes in Grade 10 Principles of Mathematics (MPM2D).

August 2014 - June 2017

Mathematics, Computer Studies

*Royal St. George's College (Independent)*

- Team lead for authoring of problem sets and development of problem-based learning pedagogy in mathematics (MPM1D, MPM2D).
- Used a project-based approach in Computer Studies (ICS2O, ICS3U, ICS4U).
- Led classes with sports-themed focus and use of current data in MDM4U.

August 2011 - June 2014

Mathematics, Computer Studies

*The Bishop Strachan School (Independent)*

- Led inquiry-driven classes in grades 9, 10, 11 (MPM1D, MPM2D, MCR3U).
- Technology teacher in grade 9; developed project-based units for TIJ1O.
- Computer Studies teacher in grade 11; instructional lead for ICS3U.

Sept. 2007 - June 2011

Mathematics, Computer Studies

*North Park Secondary School, Peel District School Board*

- Led engaging mathematics classes in grades 9, 10, and 12 (MAT1L, MPM1D, MAT2L, MPM2D, MDM4U, MAP4C).
- Computer Studies teacher in grades 10, 11 and 12 (ICS2O, ICS3U, ICS4U).

2006 - 2007

Mathematics (LTO)

*Barton Secondary School, Hamilton-Wentworth District School Board*

*Erindale Secondary School, Peel District School Board*

## Position of Responsibility

Sept. 2009 - June 2011

Department Head - International, Business, and Technology Program

*North Park Secondary School, Peel District School Board*

- Assisted teachers with technology integration and course differentiation.
- Managed and organized IBT program outreach and application process.
- Organized special events for IBT students and the portfolio review process.

## Qualifications

Jan. 2009 - Apr. 2009

Faculty of Education, University of Western Ontario  
Additional Qualification: Honour Specialist, Computer Studies

2005-2006


Ontario Institute for Studies in Education, University of Toronto  
Bachelor of Education, **Intermediate/Senior**: Mathematics, Computer Studies

1996-2001

University of Guelph  
Honours Bachelor of Arts, Major: Computing and Information Science (Co-op)

## Professional Learning

2019

 AP Computer Science Principles with Swift – Professional Learning Camp  
Austin, Texas

2009, 2010, 2012, 2013, 2014, 2015, 2017, 2018

CEMC Summer Conference for Computer Studies Educators  
University of Waterloo, Waterloo, Ontario

2015, 2016

Problem-Based Learning Math Teaching Summit  
Deerfield Academy, Deerfield, Massachusetts

2006, 2007, 2010, 2011, 2012

Anja S. Greer Mathematics, Science, and Technology Conference  
Phillips Exeter Academy, Exeter, New Hampshire

Sept. 2012 - June 2013

Texas Instruments Teacher Leadership Cadre - Prospective T<sup>3</sup> Regional Instructor  
Dallas, Texas (and via ongoing online professional development sessions)

2008, 2009, 2013

Annual Conference, Ontario Association for Mathematics Education

2007, 2008

Fall Event, Credit Humber Association for Mathematics Promotion

Aug. 2007, Aug. 2009

TI-Nspire Hands-on Summer Institute (3 days)  
Brampton, Ontario

- Also: Member, Ontario Association for Mathematics Education  
Member, National Council of Teachers of Mathematics  
Member, The Association for Computer Studies Educators

## Contribution to a Learning Community

Summer - 2013, 2014, 2015, 2017, 2018, 2019

CEMC Conference for Computer Studies Educators (University of Waterloo)

- Led session on visual problem solving as a strategy to teach novice coders.
- Led session on use of Lindenmayer systems to teach computer science.
- Led session exploring intersection of art & computer science using Processing.

Summer - 2015, 2016

Problem-Based Learning Math Teaching Summit (Deerfield Academy)

- Facilitated seminars at summit and assisted with planning in both years.
- In 2016, co-presented with Michael Ruscitti, describing PBL math approach at RSGC and lessons learned in first-year implementation of program.

Summer - 2012

Mathematics, Science and Technology Conference (Phillips Exeter Academy)

- Led session on the theory and practice of implementing a "flipped classroom".

2010 - 2013

Member, CEMC Computing Online Resource Committee (University of Waterloo)

- Met semi-annually and co-ordinated remotely for rest of year to review and organize focused, meaningful resources for Computer Studies educators.

2010 - 2011

Co-editor, Tech Tips column, Mathematics Teacher magazine (NCTM)

- Together with Larry Ottman, reviewed and edited author manuscripts.

Spring - 2009, 2013

Annual Conference (Ontario Association for Mathematics Education)

- Led session highlighting Nspire CAS activities published in TIPS4RM resource.
- Led sessions on using real-world data for mathematical modeling in MCR3U.

## School/Community Involvement

- At Lakefield College School, co-coach of Cross-Country Running team; facilitated Makerspace, Coding, and Chess clubs.
- At Royal St. George's College, co-coach of Robotics team (2014-2017).
- At The Bishop Strachan School, Middle School Lego Robotics coach (2012-13); also, co-coach of Cross-Country Running and Track & Field teams (2011-12).

## Other Work Experience

October 2013 - June 2014

Technology Integration Specialist

The Bishop Strachan School (Independent)

- Worked collaboratively with Junior, Middle, and Senior School teachers to develop the appropriate and effective use of technology in their classes.