BRANDON MILONOVICH bmilonovich@gmail.com

EDUCATION	
Teachers College, Columbia University, New York, NY	
Doctor of Philosophy in Mathematics Education	
Coursework focused in content, research, and the teaching of mathematics	In Progress
Teachers College, Columbia University, New York, NY	
Master of Philosophy in Mathematics Education	October 2017
The College of Saint Rose, Albany, NY	
Master of Science in Education in Higher Education Leadership & Administration	August 2015
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Syracuse University, Syracuse, NY	
Master of Science in Teaching and Curriculum with Emphasis in Math Education	December 2012
The College of Saint Rose, Albany, NY	
Bachelor of Arts in Adolescence Mathematics Education	May 2011
G.P.A. 3.92/4.0	
Honors: Summa cum laude, Kappa Delta Pi Education Honor Society	
CERTFICATION	
New York State Professional Certification in Mathematics Education: Grades 7-12	
AWARDS	
LHRIC Transforming Education Through Leading & Learning (TELL)	
Outstanding Innovative Teacher Award	March 2017
National Association of Graduate-Professional Students Lifetime Achievement Award	November 2014
R. Mark Sullivan Institute for Higher Education Leadership Founders Scholarship	June 2013
Roland and Barbara Cook Scholarship, Syracuse University	May 2011
NHLBI-VCU World Congress Scholarship	May 2011
Outstanding Senior in Mathematics Adolescence Education Award	March 2011
Pacific Coast Undergraduate Math Conference Travel Grant	March 2011
Joint Mathematical Meetings Travel Grant, MAA AMTNYS Scholarship for Future Mathematics Teachers	January 2011 November 2010
MathFest Travel Grant, MAA	August 2010
New York State Leaders of Tomorrow Scholarship	June 2008
TEACHING EXPERIENCE	
Ardsley High School, Ardsley, NY	
Computer Science/Mathematics Teacher	September 2015-Present
• Teach AP Computer Science A, AP Computer Science Principles,	
Introduction to Computer Science, SUPA Introduction to Information	
Security, and Geometry.	
 Advise Ardsley Innovate, Ardsley Robotics, and Ardsley Girls Who Code clubs Developed and implementing plans to ingrass anrollment in computer science 	
• Developed and implementing plans to increase enrollment in computer science courses.	
 Institutionalized a regional student hackathon involving students from across 	
the county.	

 Haldane Central School, Cold Spring, NY Mathematics Teacher Taught Algebra 2/Trigonometry, Algebra 1, Introduction to Programming, and AIS Advised High School Student Council 	September 2013-June 2015
 Capitol District Educational Opportunity Center, Troy, NY Adjunct Instructor Taught Algebra to students of all age ranges with skill levels from 5th to 9th grade 	January 2013-June 2013
 The College of Saint Rose Department of Mathematics, Albany, NY Adjunct Instructor Teach Elementary Statistics, Educational Computing, and Introduction to Computer Science 	November 2012-Present
 Syracuse University Department of Mathematics, Syracuse, NY Graduate Teaching Assistant Taught Precalculus during the Fall 2011 and 2012 semester, Calculus I during Spring 2012 and Summer 2012 	August 2011-December 2012
 Schoharie Junior/Senior High School (Grades 8-9), Schoharie, NY Gloversville High School (Grades 9-12), Gloversville, NY Mathematics Education Student Teaching Taught a variety of courses including Algebra, Math 8, Pre-Geometry, and Business Math Increased use of technology to engage students in interactive 21st century learning 	January 2011-May 2011
 Help Yourself Academy, The College of Saint Rose, Albany, NY Grade 7 Instructor Guest instruct bi-monthly lessons using the programming language Scratch to highlight mathematical and technology concepts to students 	October 2010-August 2011
 Arbor Hill Elementary School, Albany, NY Scratch Program Instructor Developed and instructed lessons to engage students in using Scratch to learn mathematics 	September-December 2010
 Thomas O'Brien Academy of Science & Technology, Albany, NY Scratch After School Program Instructor Co-planned and organized a new and innovative after school program Prepare and teach hands-on lessons engaging students in learning STEM concepts through programming in Scratch 	January 2010-June 2013
 HFM BOCES School Districts, Fulton/Montgomery County, NY Substitute Teacher (Grades 6-12) Implement lesson plans in the absence of regular teachers in the Gloversville, Amsterdam, and Broadalbin-Perth School Districts 	December 2009-June 2013

Amsterdam High School (Grades 9-12), Amsterdam, NY	
Broadalbin-Perth School District (Grades 8-12), Broadalbin, NY	
Mathematics Education Field Experience	September 2009-December 2010
 Designed and taught two interactive calculus lessons 	
Assisted teacher with helping students practice and review for upcoming	
exam	
RELATED EXPERIENCE	
Hunter College	
Computer Science Assessment Fellow	September 2018 – Present
• Serving as a member of the Design Team for the <i>Integrating Formative</i> Assessment of Computational Thinking with Self-Regulated Learning project.	
Dark Enterprises (Contracted by NSA/NSF GenCyber Program)	
Site Visitor and Pre-Camp Support Specialist	November 2017 – Present
• Visit GenCyber cybersecurity camps across the country to provide pedagogical feedback and guidance.	
• Work with new camps to provide assistance and suggestions in crafting	
a meaningful cybersecurity camp experience.	
Information Technology Services, The College of Saint Rose, Albany, NY	
Student Technical Support Specialist	May 2010 – August 2011
Created and implemented program providing student educational	
technology support	
• Designed and taught new workshops to students on technologies such as	
Blackboard, SMART Interactive Whiteboard/Notebook, and building websites	
 Developed Android application to provide mobile access to important 	
campus information	
OTHER EXPERIENCE	
Hannaford Supermarket, Rotterdam, NY	
Bookkeeper/Customer Service Leader/Trainer	May 2006 – July 2013
PUBLICATIONS AND PAPERS	
Guest Editor of Journal of Mathematics Education at Teachers College	
Teachers College, Columbia University, New York, NY	Fall 2016/Spring 2017
Scratch Cookbook	
Packt Publishing, Birmingham, UK	July 2013
Review of Number Crunching: Taming Unruly Computational Problems from	
Mathematical Physics to Science Fiction	
Mathematics Teacher, National Council of Teachers of Mathematics	March 2013
Power in the Teacher-Student Relationship: It Matters	
Journal of Undergraduate Research, The College of Saint Rose, Albany, NY	Spring 2011
Injecting Computer Science into the K-12 Classroom	
Paper and presentation to the Journal of Computing Sciences in Colleges	April 2011

CONFERENCES AND PRESENTATIONS	
Taking Your Classroom to the Next Level: Flipping, Agile, and Gamification LHRIC TLI Tech Expo 2019, Briarcliff Manor, NY	April 23, 2019
Innovative Approaches to Teaching High School Cybersecurity NICE K12 Cybersecurity Education Conference, San Antonio, TX	Dec 3, 2018
Thematic Teaching & Learning in Cybersecurity GenCyber Fall Conference, Phoenix, AZ	Sept 20, 2018
Google as your Teaching Assistant LHRIC TLI Tech Expo 2018, Briarcliff Manor, NY	May 11, 2018
An Asynchronous Approach to AP Computer Science CSTA Annual National Conference, Baltimore, MD	July 10, 2017
Rethinking Learning Spaces: it's not just about comfy chairs LHRIC TLI Tech Expo 2017, Briarcliff Manor, NY	April 7, 2017
Hands-on Geometry: Integrating Constructions to Deepen Understanding 66 th Annual AMTNYS Fall Conference, Rye, NY	Nov 12, 2016
Differentiating for All: Experiences with Flipped Mathematics and Computer Science 66 th Annual AMTNYS Fall Conference, Rye, NY	Nov 11, 2016
Inspiring Creativity and Passion in the Computer Science A Curriculum with Genius Hour	
CSTA Annual National Conference, San Diego, CA	July 11, 2016
Tech Integration & Productivity: How can the iPad help? NYSCATE Hudson Valley Conference, Wappingers Falls, NY	March 7, 2015
Using Clickers to Spark the Discussion 2013 NCTM Regional Conference, Las Vegas, NV	October 24, 2013
Scratching the Flipped Classroom Math Itch through Blended Learning 2013 ISTE Annual Conference, San Antonio, TX	June 24, 2013
Student Response Systems and Getting Students Talking 2013 NCTM Annual Meeting, Denver, CO	April 19, 2013
Suborbital Astronautics Workshop Participant through Teachers in Space Foundation, Palmdale, CA	July 2012
Saint Rose Alumni Scratching Intergenerational Teaching and Learning Scratch at MIT 2012, Cambridge, MA	July 26, 2012
Conference Co-Chair Presented Hands-on Scratch Programming with Pico Boards Scratch Day, Thomas O'Brien Academy of Science & Technology, Albany, NY	May 19, 2012

Student Response Systems in the Mathematics Classroom Technologies in Education Conference, The College of Saint Rose, Albany, NY	May 17, 2012
Conference Chair NAGPS Northeast Regional Conference, Syracuse University, Syracuse, NY	April 20-22, 2012
Exploring Regressions through Geometer's Sketchpad and Microsoft Excel MAA Session on Effective Use of Dynamic Mathematical Software in the Classroom AMS/MAA Joint Mathematics Meetings, Boston, MA	January 4, 2012
Scratching my Itch to be a Blended Learner NYSCATE 2011 Annual Conference, Rochester, NY	November 22, 2011
Retooling the Syracuse GSO Executive Board—A Request for Insights and Ideas NAGPS 25 th Annual National Conference, Boulder, CO	October 29, 2011
STEM Modeling in the Secondary Setting to Deepen Understanding 47 th Annual AMTNYS Summer Workshop, Siena College, Loudonville, NY	August 3, 2011
Authentic Assessment: User Feedback Driving the e-Portfolio Process for Teacher Candidates AAEEBL e-Portfolio World Summit 2011, Boston, MA	July 26, 2011
Authentic Assessment: User Feedback Driving the e-Portfolio Process for Teacher Candidates Presented paper, World Conference on Educational Multimedia, Hypermedia and Telecommunications Lisbon, Portugal	June 27, 2011
Mathematical Analysis of the Hodgkin-Huxley Model for Cardiac Action Potentials Presented poster, NHLBI/VCU World Congress on Mathematical Modeling and Computational Simulation of Cardiovascular and Cardiopulmonary Dynamics The College of William and Mary, Williamsburg, VA	May 31-June 3, 2011
Conference Co-Chair Presented Dynamic Geometry in the Mathematics Classroom Technologies in Education Conference, The College of Saint Rose, Albany, NY	May 16-17, 2011
Engaging Students with Interactive Web Tools Hudson-Mohawk Valley Area Mathematics Conference Schenectady High School, Schenectady, NY	March 26, 2011
Scratch In-Service Training Workshop The College of Saint Rose, Albany, NY	March 19, 2011
Pacific Coast Undergraduate Math Conference Loyola Marymount University, Los Angeles, CA	March 12, 2011
Inspiring Students through Web Tools NYSCATE Hudson Valley Conference 2011 Roy C. Ketcham High School, Wappingers Falls, NY	March 5, 2011

Mathematical Analysis of the Hodgkin-Huxley Model for Cardiac Action Potential. MAA Undergraduate Poster Session, AMS/MAA Joint Mathematical Meetings New Orleans, LA	s January 8, 2011
SCRATCHing the "Gamer" Generation NERIC Regional Technology Awareness Day, Albany, NY	December 10, 2010
Teaching in the Cloud: It's Elementary NERIC Regional Technology Awareness Day, Albany, NY	December 10, 2010
<i>The Leontief Input-Output Model for Linear Algebra</i> Guest Lecture, Linear Algebra, The College of Saint Rose, Albany, NY	December 7, 2010
21st Century Learning Through Scratch Programming NYSCATE 2010 Annual Conference, Rochester, NY	November, 23 2010
Scratch: A 21 st Century Learning Tool The 60 th Annual AMTNYS Fall Conference, Saratoga Springs, NY	November 11, 2010
The Basics of Using the SMART Interactive White Board Arbor Hill Elementary School Professional Development Session, Albany, NY	November 10, 2010
Scratch Your Way to Inquiry 3 rd Annual Capital Region Inquiry Forum, HVCC, Troy, NY	October 8, 2010
Educating Youth Through 21 st Century Learning in Scratch NYS STEM Education Institute, Oswego, NY	August 11, 2010
Mathematical Economics: The Leontief Input-Output Model MAA Student Paper Session, MathFest, Pittsburgh, PA	August 6, 2010
Summer Program in Science, Technology, Engineering, and Mathematics Florida State University, Tallahassee, FL	July 18-30, 2010
Mathematical Economics: The Leontief Input-Output Model Presented poster at The College of Saint Rose Undergraduate Research Symposium Albany, NY	n April 20, 2010
Scratch: A 21 st Century Learning Tool Presented poster at The College of Saint Rose Undergraduate Research Symposium Albany, NY	n April 20, 2010
Scratch: A Computer Programming Language for Children First Annual Educator Induction Conference, The College of Saint Rose, Albany, N	NY March 13, 2010
PROFESSIONAL ACTIVITIES	
High School Scheduling Committee Ardsley Technology Committee Member High School Technology Facilitator	September 2017-Present September 2015-Present September 2015-Present
HFA Audit Committee Member Student Council Advisor Technology Committee Member Educational Planning Committee Member Haldane High School, Cold Spring, NY	September 2014-June 2015 September 2014-June 2015 September 2013-June 2015 September 2013-June 2015

Vice-President & COO Interim President & CEO Northeast Regional Chair National Association of Graduate-Professional Students

Computing Services Committee Chair Computing Services Committee Member Graduate Student Organization Webmaster Graduate Student Organization University Senator, Syracuse University, Syracuse, NY

MEMBERSHIPS

American Mathematical Society New York State Association for Computers and Technologies in Education Association of Mathematics Teachers of New York State Mathematical Association of America National Council of Teachers of Mathematics Institute of Mathematical Statistics International Society for Technology in Education Computer Science Teachers Association

SPECIALIZED SKILLS

Proficient in use of Canvas, Blackboard, Java, HTML/CSS, Python Intermediate skill in Maple, Android Development, LaTex, C#, JavaScript Novice skill in Visual Basic, ASP.NET, Swift

VOLUNTEER EXPERIENCE

Friday "Knights" Program, The College of Saint Rose, Albany, NY, January 2010-May 2011 Reach Out Saint Rose Day, The College of Saint Rose, Albany, NY, Fall 2009/2010 Shared Decision Making Team Member, Broadalbin-Perth High School, 2007-2010

November 2012-December 2014 January 2013-March 2013 October 2011-November 2012

September 2012-December 2013 September 2011-2012 June 2012-June 2013 September 2011-December 2013