

# Brandon Caruso

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Portfolio | [brandoncaruso.com/teachingportfolio](http://brandoncaruso.com/teachingportfolio)

## Certification

Candidate for **New York State Initial Certificate, Mathematics 7-12**  
Passing Score on EAS, ATS-W, Math CST Certification Exams as of 3/2022

## Education

**Bachelor of Science in Mathematics/Adolescence Education**, expected May 2022  
State University of New York at Fredonia, Spring 2021 – present | GPA: 4.0

**Master of Human-Computer Interaction & Design**, August 2017  
University of Washington, Fall 2016 – Summer 2017 | GPA: 3.96

**Bachelor of Science in Software Engineering**, August 2015  
State University of New York at Oswego, Fall 2013 – Summer 2015 | GPA: 4.0 Summa Cum Laude

**Associate in Science in Individual Studies**, May 2013  
Jamestown Community College, Fall 2012 – Spring 2013 | GPA: 4.0

## Honors

SUNY Fredonia Dean's List, Spring 2021, Fall 2021  
Earl G. Mathewson Scholarship, 2021  
Oebele G. VanDyk Outstanding Computer Science Senior award, 2015  
Oswego President's List, all semesters Fall 2013 - Summer 2015  
JCC Dean's List, Fall 2020, Fall 2012, Spring 2013

## Student Teaching

**Math 7**, Fredonia Middle School, present

- Instructed Advanced Math 7 in probability, statistics, and systems of equations
- Assisted in preparation of Math 7 students for the NYS assessments

**Algebra 1**, Westfield Academy & Central School, 1/2022-3/2022

- Taught three units in 9th Grade Algebra I, and led Algebra I Lab and 8th Grade AIS
- Developed a custom unit on graphing functions that included assessment tools
- Developed lab activities to enhance class content and increase relevance, incorporated technology thoughtfully to improve student engagement
- Adapted and augmented curriculum to meet needs and interests of students
- Managed classroom routines and behaviors effectively, maximizing instructional time
- Communicated with parents regularly and advocated to showcase student work

## Teaching Experience

**Field Experience, Applied Geometry**, Jamestown High School, Fall 2021

- Developed and led instruction, in a diverse classroom, that focused on coordinate geometry and compass and straight edge constructions
- Led morning warm-ups that reviewed and focused on Algebra I concepts
- Assisted classroom teacher by supporting instruction and helping individual students

**Substitute Teacher**, Falconer Central School (Middle/High School), present

**Teaching Assistant**, Jamestown YMCA/Jamestown Public School, Summer 2021

- Worked 6th, 7th, and 8th graders, some English Language Learners, for 7 weeks
- Co-taught 4 hours of daily ELA and Math instruction with NYS certified teachers
- Developed engaging enrichment activities that strengthened student math thinking skills, computer science skills, and developed a variety of STEAM activities
- Monitor growth over the summer through pre and post standardized assessments

**Field Experience, Middle School Math Tutor**, Dunkirk Middle School, 2/2021 – 5/2021

- Developed engaging lessons for a virtual environment, considering student's weaknesses and strengths in Math and Science
- Monitor growth through multiple types of assessments

**Educational Outreach and Staff Training**, National Comedy Center, 2/2018 – 8/2020

- Developed and led educational programming for students (9-12, BOCES, & University) on the technology and design behind the interactive museum exhibits

**Program Assistant (K-6)**, Prendergast Library Makerspace, 11/2017 – 2/2018

- Introduced children to 3D printing and modeling, robotics, and programming
- Developed and consulted on plans for the future of the Makerspace with library staff

**Guest Teacher (6th Grade)**, Falconer Public School, 1/2018

- Developed, planned, and co-taught a multi-week CS lesson to novice programmers
- Monitored student progress and provided appropriate support tailored to student's abilities

**Summer Recreation Counselor (K-12)**, Village of Falconer, Summer 2013, 2014

- Planned and coordinated various programs, including STEM activities for children
- Ensured health, safety, and well-being of all children

**Other Relevant Experience**

**Design Researcher**, Seattle Children's Hospital, 2/2017 – 8/2017

- Developed and performed co-design workshops and design research activities with pediatric dialysis patients (age 3-13)

**Previous Work Experience**

**Web and Exhibit Design Consultant**, National Comedy Center, 8/2020 - present

**Guest Experience Researcher and Developer**, National Comedy Center, 2/2018 – 8/2020

- Developed and created new interactive and immersive museum experiences
- Facilitated soft-opening and initial beta-testing of interactive exhibits
- Maintained and supported exhibit technology
- Coordinated and executed accessibility services and led accessibility initiatives
- Performed exhibit design, graphic production, interactive development, media production, and exhibit fabrication and installation
- Launched, designed, and developed custom features for the online video platform, *National Comedy Center Anywhere*

**Cast Member**, Walt Disney World Resort, 1/2016 – 8/2016

**Software Engineering Intern**, NASA Jet Propulsion Laboratory, 6/2015 – 8/2015

**Conference Participation**

*Mission: Rocky Rover*, Presenter, *Make it, Take it!*, 71st Annual AMTNYS Conference, 2021

**Professional Development**

Teaching Digital Citizenship Training, Common Sense Education, 2021

**Professional Memberships**

Association of Mathematics Teachers of New York State (AMTNYS), present  
Science Teachers Association of New York State (STANYS), present

**Volunteer/Community Service**

**Website Design**, Our Lady of Loreto Roman Catholic Church,

**Graphic/Media Design**, The Lucille Ball Little Theatre of Jamestown,  
Jamestown Municipal Band, Jamestown Area Community Orchestra