

# Alex Scarlatos

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<https://people.cs.umass.edu/~ajscarlatos>

## Education

<b>Ph.D. in Computer Science, University of Massachusetts - Amherst</b>	<b>Expected Graduation 2026</b>
<b>M.S. in Computer Science, Stony Brook University (SBU)</b>	<b>Graduated May 2018</b>
GPA 3.90/4.0	
<b>B.S. in Computer Science with minor in Music and Technology, Stony Brook University</b>	<b>Graduated May 2017</b>
GPA 3.81/4.0, Magna Cum Laude, Honors College, Computer Science Honors	
<b>Smithtown High School East (SHSE)</b>	<b>Graduated June 2013</b>
GPA 4.03/4.4, National Honor Society, French Honor Society	

## Experience

<b>Research Assistant at UMass Amherst</b>	<b>January 2021 - Present</b>
<ul style="list-style-type: none"><li>Designing and implementing novel machine learning techniques for educational research and natural language processing.</li></ul>	
<b>Software Engineer at Bloomberg L.P.</b>	<b>July 2018 - August 2021</b>
<ul style="list-style-type: none"><li>As a full stack engineer, designed and built high volume client-facing applications for data usage reporting.</li><li>Designed and developed tools for CI/CD and credential management, used across multiple teams.</li><li>Mentored new team members in best practices, new technologies, and business logic.</li><li>Worked closely with business and UX teams, and gave presentations to the department.</li></ul>	
<b>Volunteer Teacher at Code Nation</b>	<b>September 2019 - June 2020</b>
<ul style="list-style-type: none"><li>Taught the basics of web development in a high school class, lecturing and giving one-on-one guidance.</li></ul>	
<b>Software Engineer Intern at Applied Visions Inc.</b>	<b>January, May - August 2016, January 2017</b>
<ul style="list-style-type: none"><li>Designed and developed tools for transforming and visualizing large datasets, and laid foundation for first version of visualization software.</li><li>Worked on Comic-BEE, a web application for developing branching story comics, designed to be used to teach cyber security in the classroom (<a href="https://comic-bee.com/">https://comic-bee.com/</a>).</li><li>Attended scrum and sprint meetings, and gave presentations on research and software to coworkers.</li><li>Perfect score on performance evaluation.</li></ul>	
<b>Part-Time Web Developer at Eduware Inc.</b>	<b>February 2014 - November 2015</b>
<ul style="list-style-type: none"><li>Worked on the company's main application, Test Wizard (<a href="http://www.testwizard.com">www.testwizard.com</a>).</li><li>Implemented new features, such as a new UI for a messaging system, and automated tasks previously done by hand, such as creating textbooks from question banks.</li></ul>	
<b>High School Teaching Assistant</b>	<b>January - June 2013</b>
<ul style="list-style-type: none"><li>Assisted students with in-class assignments for Intro to Computer Science at Smithtown East.</li></ul>	
<b>Accompanist</b>	<b>2010, 2011, 2012, 2018, 2019</b>
<ul style="list-style-type: none"><li>Accompanied vocal, trumpet, and violin soloists on piano for NYSSMA and All-State competitions.</li></ul>	

## Publications

Process-BERT: A Framework for Representation Learning on Educational Process Data. arXiv, April 2022 (to appear at EDM 2022). <https://arxiv.org/abs/2204.13607>

UMass PCL at SemEval-2022 Task 4: Pre-trained Language Model Ensembles for Detecting Patronizing and Condescending Language. arXiv, April 2022 (to appear at SemEval 2022). <https://arxiv.org/abs/2204.08304>

Sonispace: a simulated-space interface for sound design and experimentation. arXiv, September 2020. <https://arxiv.org/abs/2009.14268v1>

## Honors and Awards

- Named as one of the Researchers of the Month for URECA at SBU, May 2017 ([https://www.stonybrook.edu/commcms/ureca/feature/\\_bio/2017/May2017](https://www.stonybrook.edu/commcms/ureca/feature/_bio/2017/May2017)).
- Finalist in 2017 SBU Game Programming Competition.
- SBU-TV Film Festival - Undergraduate Winner 2014, Best in Show 2015.
- Presidential Scholarship and Dean's Scholarship from SBU.
- Link and A.B. Lawrence Scholarships for community service from First Presbyterian Church of Smithtown.
- Computer Science Academic award from SHSE.
- AP Scholar with Distinction.
- Gold medal, Level 6 Piano, New York State Student Music Association (NYSSMA), 2010 – 2012.