

## EDUCATION

Philadelphia, PA <i>Expected May 2021</i>	<b>University of Pennsylvania</b> MASTER OF SCIENCE IN ENGINEERING IN DATA SCIENCE, CONCENTRATION IN COMPUTER VISION <ul style="list-style-type: none"><li>• Courses: Algorithms, Big Data, Machine Learning, Deep Learning, Computer Vision, Artificial Intelligence</li><li>• Leadership: Data Science General Assembly, Penn Data Science Group Board (Partnership Team)</li></ul>
New York, NY <i>Aug 2013 - May 2017</i>	<b>New York University</b> BACHELOR OF ARTS IN MATHEMATICS AND ECONOMICS <ul style="list-style-type: none"><li>• Honors: Dean's List, University Honors Scholar (Founders' Day Award)</li></ul>

## EXPERIENCE

Boulder, CO* <i>Jun 2020 - Aug 2020</i>	<b>The Trade Desk</b> DATA SCIENCE INTERN <ul style="list-style-type: none"><li>• Optimization: build models that determine what combinations of different types of ads perform best</li><li>• Prediction: build models to predict advertisers' likelihood of winning auctions to finalize their strategy</li><li>• Experimental design: measure the impact of any changes we introduce to our optimization models</li></ul>
New York, NY <i>Jun 2018 - Jul 2019</i> <i>Jun 2017 - May 2018</i>	<b>Vitech Systems Group</b> SOLUTIONS ANALYST ASSOCIATE SOLUTIONS ANALYST <ul style="list-style-type: none"><li>• Served as main liaison between engineering team and clients on agile-based software development projects</li><li>• Managed server &amp; client databases for performing data analysis and resolving data issues [PL/SQL]</li><li>• Collaborated with tech leads to design extensive workflow processes and write new software design documents, advanced functional specifications, and enhancement contracts</li><li>• Delivered optimal software solutions via in-depth quality assurance of modifications and defect fixes</li><li>• Mentored new hires and led training seminars covering domain knowledge and best industry practices</li></ul>
New York, NY <i>Sep 2016 - May 2017</i>	<b>Haver Analytics</b> ECONOMIC RESEARCH INTERN <ul style="list-style-type: none"><li>• Compiled, managed, and quality-assured databases covering macroeconomic indicators of Asia-Pacific markets and delivered data upon each release to clients</li><li>• Performed statistical analysis on time series data to provide insights into historical market trends [Stata]</li><li>• Added new time series data to server &amp; client databases and automated data extraction/formatting [DOS]</li></ul>
New York, NY <i>Oct 2014 - Feb 2015</i>	<b>PrimeAlpha</b> PROJECT MANAGER INTERN <ul style="list-style-type: none"><li>• Managed various projects, such as conducting investor due diligence and developing marketing campaigns</li><li>• Oversaw and performed detailed software functionality, usability, and interface testing activities</li></ul>

PROJECTS (MORE > <https://github.com/roynwu>)

NLP <i>Jan 2020 - May 2020</i>	<b>Headline Writer: Abstractive Text Summarization with Attention and Pointer-Generator Network</b> Henglin Wu, Ruilin Zhao, <b>Roy Wu</b> , Chenyuan Li <a href="#">[paper]</a> <a href="#">[code]</a> <a href="#">[slides]</a> <a href="#">[youtube]</a> Developed an advanced Seq2Seq model that automates generation of news article summary headlines
Computer Vision <i>Jan 2020 - May 2020</i>	<b>Artificial Anime Character Design: An Application of Generative Adversarial Networks (GANs)</b> <b>Roy Wu</b> , Riley Xu, Tianhao Lu <a href="#">[paper]</a> <a href="#">[code]</a> <a href="#">[slides]</a> Built various GANs with improved training techniques to create artificial face designs of anime characters

## SKILLS

<b>Programming</b>	Python · SQL (MySQL, Oracle) · Java
<b>ML/DL Libraries</b>	PyTorch · Scikit-Learn · NumPy · Pandas · Matplotlib · Seaborn
<b>Technologies</b>	Jupyter · Apache Spark · AWS · GitHub · Docker · L <sup>A</sup> T <sub>E</sub> X
<b>Others</b>	Actuarial Exams: SOA Exam P/CAS Exam 1 · Languages: Chinese · Video: Final Cut Pro, HitFilm