

Roy N. Wu

M.S.E. IN DATA SCIENCE @ UNIVERSITY OF PENNSYLVANIA

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EDUCATION

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

EXPERIENCE

Boulder, CO <i>Jun 2020 - Aug 2020</i>	The Trade Desk DATA SCIENCE INTERN - PERFORMANCE AUTOMATION TEAM <ul style="list-style-type: none">• Designed and implemented a new algorithm that supports lookalike modeling for custom campaign optimization [Spark-Scala] [SQL] [AWS (EMR, S3)]• Prototyped a predictive regression model for the Automated Optimization recommendation tool; increased ad group performance by 45% and reduced error by 58% on average across all KPI metrics [Python] [SQL]
New York, NY <i>Jun 2018 - Jul 2019</i> <i>Jun 2017 - May 2018</i>	Vitech Systems Group SOLUTIONS ANALYST ASSOCIATE SOLUTIONS ANALYST <ul style="list-style-type: none">• Served as main liaison between engineering team and clients on agile-based software development projects• Managed server & client databases for performing data analysis and resolving data issues [SQL]• Collaborated with tech leads to design extensive workflow processes and write new software design documents, advanced functional specifications, and enhancement contracts• Delivered optimal software solutions via in-depth quality assurance of modifications and defect fixes• Mentored new hires and led training seminars covering domain knowledge and best industry practices
New York, NY <i>Sep 2016 - May 2017</i>	Haver Analytics ECONOMIC RESEARCH INTERN <ul style="list-style-type: none">• Compiled, managed, and quality-assured databases covering macroeconomic indicators of Asia-Pacific markets and delivered data upon each release to clients• Performed statistical analysis on time series data to provide insights into historical market trends [Stata]• Added new time series data to server & client databases and automated data extraction/formatting [DOS]
New York, NY <i>Oct 2014 - Feb 2015</i>	PrimeAlpha PROJECT MANAGER INTERN <ul style="list-style-type: none">• Managed various projects, such as conducting investor due diligence and developing marketing campaigns• Oversaw and performed detailed software functionality, usability, and interface testing activities

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

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

SKILLS

Programming	Python · SQL · Scala · Java
ML/DL Libraries	PyTorch · Scikit-Learn · NumPy · Pandas · Matplotlib
Technologies	Apache Spark · AWS · Git · \LaTeX
Others	Actuarial Exams: SOA Exam P/CAS Exam 1 · Languages: Chinese · Video: Final Cut Pro, HitFilm