**Tina Huang**

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**EDUCATION AND HONORS**

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| **University of Pennsylvania,** School of Engineering and Applied Science | Philadelphia, PA |
| Masters in Computer Science (MCIT) | May 2020 |

* Cumulative GPA: 3.7/4.0
* Relevant Coursework: Machine Learning, Data Science Statistics, Big Data Analytics, Probability & Discrete Mathematics

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| **University of Toronto,** Trinity College | | Toronto, ON | |
| Honors Bachelor of Science with High Distinction (Pharmacology Specialist) | | May | 2017 |
| • | Cumulative GPA: 3.8/4.0, Pharmacology GPA: 3.9/4.0, Dean’s List |  |  |
| • | St. Hildas’s Scholarship, Trinity Chancellor’s Scholarship ($1000 awarded for top 2% of program) | 2015, | 2016 |

**PROFESSIONAL EXPERIENCE**

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| **Goldman Sachs Group, Inc.** | New York, NY |
| *Data Science & Machine Learning Summer Analyst, Securities Division* | June 2019 - August 2019 |

* Utilized python to implement unsupervised machine learning techniques for time series anomaly detection on 3TB of unstructured data, which reduced total process time by 20%.
* Wrangled 10TB of trading data stored in hadoop distributed file system using scala to remodel and visualize 16 previously inaccessible datasets to allow 500+ end clients to track impact of trades on liquidity.
* Presented results to team’s global head and wrote requested executive summary detailing value proposition and strategy to present to end clients and senior leadership.

**Ontario Institute for Cancer Research** Toronto, ON *Junior Data Scientist* May 2017 - April 2018

* Utilized python and R on high performance computing Linux cluster to discover 3 new cancer mutations.
* Publication: **Huang T**, Reimand J. Network-rewiring mutation in kinase signaling networks are informative of cancer patient survival. *in preparation.*
* Publication: Krassowski M, Paczkowska M, Cullion K, **Huang T** et al., ActiveDriverDB: human disease mutations and genome variation in post-translational modification sites of proteins. *Nucleic Acids Res.* 2017. doi:10.1093/nar/gkx973.

**SKILLS**

* **Programming Languages:** Python, R, Java, Scala, C, C++, JavaScript, HTML, CSS, Lua
* **Big Data & Machine Learning:** Spark, Hadoop, MongoDB, Python (eg. scikit-learn, numpy, pandas, matplotlib)
* **Data Science & Miscellaneous Technologies:** A/B testing, ETL, Data science pipeline (cleansing, wrangling, visualization,modeling, interpretation), Statistics, Time series, Experimental design, Hypothesis testing, OOP, OOD, APIs, Excel, Git

**PROJECTS AND LEADERSHIP**

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| **Teaching Assistant** | Toronto, ON |
| *Mathematical Foundations of Computer Science (University of Pennsylvania)* | April 2018 - September 2018 |

* Collaborated with instructor and 5 other TAs to lead recitations, grade coursework, and answer 60+ students’ questions.

**Cofounder & Business Lead**

*Tali* (*University of Toronto Hatchery Startup Accelerator)*

Toronto, ON

April 2018 - September 2018

* Pitched to a private therapy provider to raise 5K for creation of subscription based web application that helps university students with autism and/or ADHD achieve academic goals.
* Surveyed 20+ students and consulted with board certified therapists to create alpha prototype.
* Pitched weekly throughout the accelerator program and ultimately chosen as top 10 of 50 teams.

**President**

*TechXplore (University of Toronto)*

Toronto, ON

March 2016 - May 2017

* Led team of 5 students to collaborate with technology experts (eg. R, Python, AutoCAD) to create a total of 8 workshops, expositions, and hackathons that gathered a combined 1000+ attendees.
* Established and maintained 4 sponsorships with university faculties, companies, and other clubs.

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| **Wet Lab Lead** Toronto, ON | March 2016 - June 2017 |  |
| *International Genetically Engineered Machine (iGEM Toronto)* |  |

* Collaborated with 6 executive members to design and implement synthetic biology projects for 16 general members. Developed a light controlled genetic switch to control CRISPR/CAS9 gene editing (Bronze medal). Created biologically reactive paper sensors for cheap and eco-friendly gold detection (Bronze medal).