

Queenie Hu, PhD

Contact

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Skill Highlights

- Project management
- Leadership
- Decision maker
- Problem solver
- Strong organization and time-management skills
- Quick Learner
- Team Building
- Effective written and oral communication

Education

Certification: **Data Analytics** (2019), **Data Science & Machine Learning** (2020)
BrainStation, Toronto

Doctor of Philosophy: **Cellular and Molecular Biology** – 2016
York University, Toronto

Bachelor of Science (Honours): **Molecular Genetics** – 2009
Queen’s University, Kingston

Computer Skills

- Microsoft Office
- Prism GraphPad
- Programming (SQL, Python)
- Data Visualization (Matplotlib, Seaborn, Plotly)
- Machine Learning (Sci-kit learn, NLTK)
- Deep Learning (TensorFlow, Keras)

Summary

- A forward-thinking and solution-oriented data analyst and scientist, experienced in large-scale data set management and analysis, resulting in major discovery in diabetes research
- Cross-collaborative and self-motivated individual with expertise in different aspects of laboratory skills, leading to long-lasting research projects and 4-peer-reviewed scientific publications and 7 conference presentations
- Goal-driven individual with detail-oriented mindset, proven ability to distill complex information and to meet tight deadlines by working in a fast-paced environment, highly passionate work ethics and striving to pursue new knowledge and skills

Work Experience

Medical Laboratory Assistant (Contract) – 10/2020 – Present

Shared Hospital Laboratory, Toronto, ON

- Receive, sort and label COVID19 specimens submitted for laboratory examination according to SOPs
- Extraction of COVID19 samples in an automated liquid handling platforms
- Provide technical support for data validation and evaluation under strict protocol

Biomedical Data Analyst (Contract) – 11/2019 – Present

BenchSci, Toronto, ON

- Meticulously analyzing and categorizing vendors’ products, experiment use cases and figures to ensure information are correctly labelled for machine learning training

Postdoctoral Fellow – 02/2017 – 01/2020

Sunnybrook Research Institute, Toronto, ON

- Co-led 2 drug screening projects and utilized machine learning to uncover potential treatment for Type 1 diabetes
- Project produced 50+ data sheets and 18,000+ data points which were analyzed quantitatively and qualitatively in Excel and GraphPad Prism
- Strategically provided advice and verify research grant proposal applications, including managing timelines and overseeing online application processes
- Effectively communicated research findings at local/ international conferences and leading pharmaceutical companies in order to secure funding for on-going projects

Graduate Research Assistant – 09/2009 – 01/2017

York University, Toronto, ON

- Analyzed data from experiments contributing to 2 first author publications
- Productive team player and multitasker as evidenced by providing technical support to 3 ongoing projects, leading to 3 co-author publications
- Trained new students in molecular biology experimental skills

Volunteer Experience

Trainee Advancement and Development Committee

Banting and Best Diabetes Centre, 09/2018 – 01/2020

- Perform scientific review for various funding programs

Peer Reviewer

Journal of Biological Chemistry, 07/2018 – 01/2020

- Review and provide feedback on assigned manuscripts in the areas of Diabetes, Islet Biology, and Metabolism