

# Joanne Nguyen

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## Professional Experience

<b>Mission Bio</b>   South San Francisco, CA	02/2022 - 10/2024
<b>Research Associate II, Pharma Assay Development</b>	
<ul style="list-style-type: none"><li>Optimized single-cell data capture through Tapestry multiomics and improved NGS library workflows, resulting in higher-quality data collection, leading to more reliable outcomes in client projects targeting cancer therapeutics</li><li>Led multiple high-priority projects simultaneously, meeting tight deadlines and improving experiment outcomes</li><li>Collaborated with R&amp;D project leads to align projects goals, contributing to experiments that led to 5 publications</li><li>Integrated molecular techniques (bulk NGS, qPCR, gel electrophoresis, cell fixation and oligo conjugation) into existing protocols, enabling greater insight for troubleshooting process development and downstream analysis</li><li>Technical lead in optimization and validation of oligo conjugation protocol, critically improving yield by 95%</li><li>Enhanced cell capture protocol, increasing usable data by 25% through laminar washing and PFA fixation</li><li>Collaborated on database structure, refined SQL queries and visualized dashboards to improve NGS reliability</li><li>Implemented Javascript automation tools to streamline data management, reducing processing time by 50% through automated real-time updates for sample tracking, inventory management, and data filtering</li><li>Built a Python regex-based tool to automate protein tag pattern identification for statistical comparative models</li></ul>	
<b>Lifelabs Genetics</b>   Toronto, ON	09/2020 - 01/2022
<b>Site Lead</b>	04/2021 - 01/2022
<ul style="list-style-type: none"><li>Promoted within 7 months for demonstrating strong leadership in training and mentoring a 35-member team on high-complexity molecular assays, data analysis, and instrumentation for COVID clinical diagnostic analysis</li><li>Developed and implemented CAP-compliant SOPs, ensuring assay consistency and regulatory adherence</li><li>Analyzed qPCR data trends and presented findings to internal teams, identifying patterns in positivity rate</li><li>Applied a design of experiments matrix to optimize positive control dilution, achieving a 60% cost reduction</li><li>Designed a Python statistical algorithm tool to enhance reliability of qPCR and mass spectrometry results calling</li></ul>	
<b>Medical Laboratory Technician</b>	09/2020 - 04/2021
<ul style="list-style-type: none"><li>Ensured efficiency in high-throughput COVID RNA extraction, qPCR, mass spectrometry and analysis</li><li>Coordinated qPCR and mass spectrometry workflows for 1000s of clinical samples a day with quick turnaround</li><li>Led inventory organization and management by implementing Lean to reduce consumable waste</li><li>Maintained, validated and calibrated qPCR analyzers and automated liquid handlers for optimal function</li></ul>	
<b>University of Toronto</b>   Toronto, ON	05/2019 - 12/2019
<b>Research Assistant, Plant Genomics</b>	
<ul style="list-style-type: none"><li>Standardized and collected qualitative data to determine evolutionary resistance of agricultural herbicide</li><li>Collaborated with lab members to support genomics research in the mechanisms of plant fertilization</li></ul>	

## Technical Highlights

<b>Molecular Biology:</b>	NGS & scNGS Library Prep, DNA & RNA Extraction/Quantification, Mass Spectrometry
<b>Cell Biology:</b>	Mammalian Cell Culture, Immunostaining, Cell Staining, Cell Imaging Analysis, Histology
<b>Quality:</b>	SOP Writing, ISO 9001, ISO 15189, CAP, QC/QA, GLP, GDP, HIPAA/PHI, EHS
<b>Software:</b>	Python, Javascript, SQL, Confluence, JIRA, Salesforce Cloud Coach, LIMS, LIS

## Education

**University of Toronto** | Honors BSc in Human Biology of Health & Disease, Minors in Physiology & Biology