

Joanne Nguyen

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Professional Experience

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| Mission Bio South San Francisco, CA | 02/2022 - 10/2024 |
| Research Associate II, Pharma Assay Development | |
| <ul style="list-style-type: none">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 therapeuticsLed multiple high-priority projects simultaneously, meeting tight deadlines and improving experiment outcomesCollaborated with R&D project leads to align projects goals, contributing to experiments that led to 5 publicationsIntegrated molecular techniques (bulk NGS, qPCR, gel electrophoresis, cell fixation and oligo conjugation) into existing protocols, enabling greater insight for troubleshooting process development and downstream analysisTechnical lead in optimization and validation of oligo conjugation protocol, critically improving yield by 95%Enhanced cell capture protocol, increasing usable data by 25% through laminar washing and PFA fixationCollaborated on database structure, refined SQL queries and visualized dashboards to improve NGS reliabilityImplemented Javascript automation tools to streamline data management, reducing processing time by 50% through automated real-time updates for sample tracking, inventory management, and data filteringBuilt a Python regex-based tool to automate protein tag pattern identification for statistical comparative models | |
| Lifelabs Genetics Toronto, ON | 09/2020 - 01/2022 |
| Site Lead | 04/2021 - 01/2022 |
| <ul style="list-style-type: none">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 analysisDeveloped and implemented CAP-compliant SOPs, ensuring assay consistency and regulatory adherenceAnalyzed qPCR data trends and presented findings to internal teams, identifying patterns in positivity rateApplied a design of experiments matrix to optimize positive control dilution, achieving a 60% cost reductionDesigned a Python statistical algorithm tool to enhance reliability of qPCR and mass spectrometry results calling | |
| Medical Laboratory Technician | 09/2020 - 04/2021 |
| <ul style="list-style-type: none">Ensured efficiency in high-throughput COVID RNA extraction, qPCR, mass spectrometry and analysisCoordinated qPCR and mass spectrometry workflows for 1000s of clinical samples a day with quick turnaroundLed inventory organization and management by implementing Lean to reduce consumable wasteMaintained, validated and calibrated qPCR analyzers and automated liquid handlers for optimal function | |
| University of Toronto Toronto, ON | 05/2019 - 12/2019 |
| Research Assistant, Plant Genomics | |
| <ul style="list-style-type: none">Standardized and collected qualitative data to determine evolutionary resistance of agricultural herbicideCollaborated with lab members to support genomics research in the mechanisms of plant fertilization | |

Technical Highlights

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| Molecular Biology: | NGS & scNGS Library Prep, DNA & RNA Extraction/Quantification, Mass Spectrometry |
| Cell Biology: | Mammalian Cell Culture, Immunostaining, Cell Staining, Cell Imaging Analysis, Histology |
| Quality: | SOP Writing, ISO 9001, ISO 15189, CAP, QC/QA, GLP, GDP, HIPAA/PHI, EHS |
| Software: | 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