Jason Blondeau

Curiosity driven research technician and technical analyst committed to advancing scientific discovery through high-quality research and the development of high-performance compute platforms that accelerate scientific workflows

715 E Pine St.
Seattle, WA 98122
(586) 552-0675
jasontblondeau@gmail.com

EXPERIENCE

A2-Ai, Ann Arbor, MI — *Technical Analyst*

MARCH 2024 - PRESENT

- Supported the design, development, and maintenance of A2-Ai's high-performance cloud-based compute platform, enabling scalable and secure scientific research workflows for 50+ internal users and multiple external clients.
- Delivered system architecture diagrams, platform requirements, and scientific process flows to enable pharmaceutical clients to design platforms that optimize scientific productivity and enhance end-user experience.
- Led and executed computer system and software validation activities, including requirements gathering, test case development, and compliance documentation in regulated environments
- Created and maintained comprehensive technical documentation, such as SOPs/Work Instructions, user guides, and system architecture diagrams to support internal processes
- Continuously evaluated and strengthened the organization's security posture, IT governance, and compliance by leading initiatives in access control, change management, and risk-based development.

Neogen, Lansing, MI — *Research Technician*

FEBRUARY 2023 - OCTOBER 2023

- Worked with lab colleagues to plan and execute experimental protocols for product improvement.
- Contributed to creating a new quantification assay using Loop Mediated Isothermal Assay (LAMP) technology.
- Innovated new media formulations to enhance the growth rates and effectiveness of aquatic microbes, resulting in optimized conditions for proliferation and quantification.
- Explored the optimization and specificity detection specificity for an environmental *Listeria* detection assay, leading to enhanced accuracy and reliability in monitoring and ensuring food safety standard
- Maintained lab integrity by adhering to Good Laboratory Practices (GLP) and conducting performance audits.

SKILLS

Experimental Design

Laboratory Techniques (Molecular, Microbiology)

Collaboration and Project Management: *Jira, Confluence*

Risk Assessment and Mitigation

Regulatory Compliance

System Optimization

Data Management and Protection

Written and Verbal Communication

AWARDS

Deans List: 8 semesters

Frederic B. Dutton Scholarship: Recipient

EDUCATION

Michigan State University, East Lansing, MI — *Bachelor of Science: Human Biology and Genomics and Molecular Genetics*

AUGUST 2017 - APRIL 2021

- Cumulative GPA: 3.96/4.00

ACADEMIC PROJECTS

Genetic alterations to improve *Ideonella sakaiensis* as an agent for PET degradation— *Michigan State University, Advanced Genomics Lab*

January-May 2021

- Developed a comprehensive research proposal focused on enhancing the efficacy of *I. sakaiensis* in degrading PET plastics
- Outlined methodologies for gene editing, protein purification, and PET degradation assays to evaluate success of alterations
- Demonstrated strong skills in scientific writing, research planning, and application of molecular genetic techniques

Exploring differential gene expression in *C.crescentus* stress response— *Michigan State University, Advanced Genomics Lab*

January-May 2021

- Analyzed RNA-seq data to identify genes that were under or over-expressed in response to osmotic stress.
- Conducted literature review and research of identified genes and their corresponding proteins
- Generated a comprehensive report summarizing findings, methodologies, and implications of the research, showcasing strong scientific writing and communication skills.

Animal waste confers ampicillin resistance in river microbes — *Michigan State University, Molecular Biology Lab*

January-May 2019

- Designed and executed experiments, demonstrating proficiency in hypothesis testing and research methodology
- Executed PCR amplification of 16s rrna genes and performed subsequent gel electrophoresis