Taylor Johnson

Resume
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I design, optimize, scale, and execute experimental and operational workflows from sample acquisition to data analysis to answer complex biological questions with well-documented results.

Professional strengths

- Pride in high-quality project deliverables
- Proactive solutions and informed decision making
- Adoption of new techniques for improved workplace speed and efficiency

Employment History

Staff Research Associate at University of California | San Francisco, CA. **2018 – present**
SRA III – Lab Manager for Dr. Jennifer Yokoyama at the UCSF Fein Memory and Aging Center (MAC)

- **Wet lab**
  - Lead protocol and experimental design for genomic and molecular biology studies from sample collection to data generation
  - Collaborate on study aims and design across multiple project teams
    - **Technological expertise**: Next Generation Sequencing library preparation (DNA, RNA, targeted, single cell, single nucleus), cryostat tissue sectioning, cell culture, flow cytometry, digital PCR, qPCR, clinical sample processing, nucleic acid and protein preparation/purification, QA/QC
    - **Clinical specimen expertise**: Fresh-frozen post-mortem human brain tissue, whole blood, peripheral blood mononuclear cells, plasma, cerebrospinal fluid (CSF)
  - Developed and expanded the Yokoyama wet-lab from early beginnings: fostered fruitful cross-lab relationships, established new sample acquisition pipelines (e.g., human brain tissue, CSF, plasma), team hiring, capital equipment procurement, and developed strategies to support evolving research priorities
  - Managerial and administrative lead for wet-lab operations, staff and graduate student training
  - Consultant at the MAC Specimen Processing Lab for protocol development, specimen processing, storage, logistics
  - Authorship and review of manuscripts and contribute to data analysis and publication efforts
- **Dry lab**
  - Revived a retrospective cohort study leading to publication (Johnson et al. Neurocase, 2025) and adjunct data sharing effort
  - Analysis of a variety of datasets to support ongoing projects
  - Computational proficiencies: R, bash, GitHub
  - Design, development, and maintenance of the Yokoyama Lab biorepository database (FreezerWorks LIMS)

Research Associate at California Polytechnic State University | San Luis Obispo, CA. **2017 – 2018**
Research Associate – Lab associate for Dr. Marie Yeung

- Probing Human Epithelial Cell Responses to Commercial Probiotic Bacterial Strains
  - Presented at the 2018 CSUPERB Biotechnology Research Symposium
- Enhancing Recoverability of Lyophilized Lactic Acid Bacteria
  - Presented at the 2017 College of Science and Mathematics Student Research Conference

Harmony Cellars | Harmony, CA. **2014 – 2018**

- Tasting Room Attendant
- Harvest Intern

Law Estate | Paso Robles, CA. **2014**

- Harvest Intern

Education

California Polytechnic State University, San Luis Obispo **2015 – 2018**

- Bachelor of Science in Wine and Viticulture; concentration: Enology (GPA 3.65; graduation Honors: Cum Laude)
- Minor: Microbiology
- Recipient of faculty awarded, Academic Scholar Grant (2018)

Santa Barbara City College **2011 – 2014**

- Associate of the Arts in Science and Math (GPA 3.52; graduation with Honors)

Selected Publications

Johnson, Taylor P., et al. "Reduced levels of angiogenesis biomarkers predict increased symptom severity in Chinese Americans with Alzheimer's disease with demographic-specific effect." Neurocase, vol. 31, no. 2, 9 Feb. 2025, pp. 82–91, https://doi.org/10.1080/13554794.2025.2455759.

Sirkis, Daniel W., Caroline Warly Solsberg, Taylor P. Johnson, Luke W. Bonham, Virginia E. Sturm, et al. "Single-cell RNA-seq reveals alterations in peripheral CX3CR1 and nonclassical monocytes in familial tauopathy." Genome Medicine, vol. 15, no. 1, 18 July 2023, https://doi.org/10.1186/s13073-023-01205-3.