Nadia Paquin

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EDUCATION

2018-2022 — **Pomona College**, Claremont CA • BA in Molecular Biology
2022-2024 — **Syracuse University** • MS in Applied Data Science

WORK & RESEARCH EXPERIENCE

August – November 2022 — **Water Polo Coach** at Burlingame High School, Burlingame CA

June – August 2021— **Research Lab Intern** at City of Hope Hospital, Duarte CA

- Biochemical characterization of genomic biomarker associated with diabetic kidney disease, developing co-IP methods to isolate target DNA molecules for mass spectrometry analysis and sequencing. Presentation of data and incorporating protocols with standard lab procedures.
- *Senior Thesis* — Determining the efficacy of potential genomic biomarker for diabetic kidney disease using survival analyses and multi-variate logistical regression.
- *Publication* — "Methylglyoxal Adducts are Prognostic Biomarkers for Diabetic Kidney Disease in Patients with Type 1 Diabetes." Diabetes, vol. 73, no. 4, 2024, pp. 611.

August 2020 – March 2021 — **Student Researcher, Cavalcanti Lab** (remote) Pomona College, Claremont CA

- Transcriptomic analysis of *Haloferax sulfurifontis* via RNAseq under aerobic and anaerobic conditions, focusing on sulfur reducing enzymes.

June – August 2020 — **Independent Summer Research** (remote) Pomona College, Claremont CA

- Building a foundation of data science knowledge using Python and John's Hopkin's COVID19 databases; visualizing US pandemic data using pandas, dash, and plotly packages.

June – August 2019 and June – August 2020 — **Lab Intern** at Intervenn Biosciences, Redwood City CA

- Running and managing ELISAs to advance [VOCAL](#) clinical trials of ovarian cancer liquid biopsy, Excel analysis and presentation of research data detailing accuracy, specificity, and sensitivity of diagnoses.
- Automating aliquots, writing SOP's, mass-spec stability testing, sample/lab/waste management, troubleshooting lab equipment, and working with regional sales representatives.

August 2019 – May 2020 — **Lab Tech** at Pomona College, Claremont CA

- Maintenance and monitoring of Alzheimer's research mice and lab conditions

RELEVANT COURSEWORK

Undergrad — Molecular Biology • Bioinformatics and Genomics • Organic Chemistry • Biochemistry • Linear Algebra • Differential Equations
Graduate — Applied Machine Learning • Big Data • Natural Language Processing • Information Security • Scripting for Data Analysis • Database Management • Business Analytics • Info Visualization

SKILLS

Lab- ELISA • Co-IP • PCR • Western/Southern Blots • HPLC• LCMS • SOP development • Clinical data & sample management • automated liquid handlers (Apricot)
Tools and Technology- Python • R • SQL • Excel • Azure • Docker • MySQL • Adobe Suite • DNASTAR
Languages- Spanish (beginner) • Mandarin (beginner)

LEADERSHIP & TEAMWORK

- **2019** Southeast Asian Games bronze medalist
- **2019, 2020, 2022** All-American D3 Athlete
- **2021-2022** 5C Surf Club Co-Founder and leader
- **2018-2022** Pomona-Pitzer sporting events staff
- **2021-2022** Pomona Molecular Biology Department liaison
- **2018-2022** PP Student Athlete Advisory Committee
- **Pre-2018** Lifeguard, swim instructor and coach