
ROBIN AGUILAR

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WORK EXPERIENCE

Scientific Communications and Marketing Specialist

October 2023 - Present

A-Alpha Bio

Seattle, WA

- Launch company-wide infrastructure to facilitate internal and external scientific communications.
- Collaborate with scientists to communicate research findings via posters and talks at 8 national conferences.

Doctoral Researcher

June 2019 - October 2023

UW Genome Sciences

Seattle, WA

- Developed software tools and FISH assays to empower oncology diagnostics through microscopy methods.
- Created large-scale genomics analysis pipelines in Snakemake and NextFlow for broad clinical datasets.
- Designed 30+ high throughput experiments to derive biological insights from computational predictions.
- Curated curricula as a TA for 2 computational genomics courses providing \$80k in instructional services.
- Communicated research findings through [5 publications](#) and as an invited speaker to 8 institutions.

Computational Biology Research Assistant

April 2015 - May 2018

DePauw University and Rare Genomics Institute

Greencastle, IN

- Developed 3 bioinformatic pipelines to analyze protein structures associated with rare human diseases.
- Analyzed 10+ NGS, VCF, and GWAS datasets to communicate clinical findings to collaborators.

Computational Research Intern

June 2016 - August 2017

UW — UNIGE — Stanford

Seattle, WA — Geneva, CH — Palo Alto, CA

- UW: Developed Python app to investigate homolog pairing in yeast 3D genome organization.
- UNIGE: Leveraged statistical and molecular biology methods to study human tumor growth factors.
- Stanford: Applied computational methods to model DMD protein structure in a gene therapy approach.
- Communicated all internship program findings at 4 international genomics research conferences.

EDUCATION

University of Washington Seattle, Department of Genome Sciences

October 2023

Ph.D. in Genome Sciences — Data Science Track — NSF GRFP Fellow — HHMI Gilliam Fellow

DePauw University

May 2018

B.A. in Biochemistry — Minors in Computer Science and Spanish — Science Research Fellow

SKILLS

Computer Languages

Python (Pandas, Scikit-learn, NumPy), Unix/Linux, Jupyter, R

Databases

MySQL, PostgreSQL, Microsoft SQL, Airtable

Tools

Git, Snakemake, NextFlow, AWS, SVM, Shiny, Tableau

Illustration

Adobe Illustrator and Photoshop Suites, Procreate, Blender

Genomics Analysis

RNA-seq, scRNA-seq, scATAC-seq, Hi-C, NGS, GWAS, Imaging

Molecular Biology Techniques

FISH, Confocal Microscopy, PCR, CRISPR, IHC, Cell culture

Science Communication Clients

MIT, Caltech, Stanford, HHMI, NSF, Nature, ACS, SACNAS

Leadership

President and Co-Founder of [UW GSAIMS](#)