

JOHN CHENEY

Eugene, Oregon

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Education

Master of Science – Bioinformatics and Genomics Track

June 2021 – Dec 2022 (expected)

University of Oregon

Eugene, Oregon

Bachelor of Arts – Biology

Aug 2012 – May 2019

Willamette University

Salem, Oregon

Technical Skills

Languages: Japanese | Python | Bash | R | LaTeX | R Shiny

Software: VS Code | RStudio | Slurm | GitHub | IGV | blast | Ensembl | PhyML | Velvet | Samtools | Seurat | DESeq2 | ALDEx2 | limma | Snakemake | STAR | BBTools | SPAdes | FastQC

Statistics: Probability | Sampling distributions | Data simulation | Generalized linear models | Multivariate analysis

Research Projects

CITE-seq Data Visualization Rshiny App | *Python, R, Snakemake, Seurat*

Sept 2021 – Dec 2021

- Developed an interactive R Shiny visualization app to study Acute Myeloid Leukemia using 10x Genomics sequencing data, in collaboration with Oregon Health and Sciences University (OHSU)
- Updated the existing CellRanger/Seurat CITE-seq pipeline to integrate new clustering methodologies, though weekly meetings, code reviews, and version control through a shared GitHub repository

Independent Genomics Research | *Bash, SPAdes, FastQC, BBTools*

Sept 2020 – Feb 2021

- Created a SPAdes assembly pipeline for bacterial genomes utilizing FastQC tools for quality control
- Solved several Rosalind bioinformatics and programming problem sets: [🐙github.com/johncheney/Rosalind-Problems](https://github.com/johncheney/Rosalind-Problems)

Experience

Graduate Teaching Assistant

Sept 2021 – Present

Graduate Teaching Fellowship – University of Oregon

Eugene, Oregon

- Instructed weekly chemistry sections totaling 34 students utilizing a scientific inquiry-based pedagogical approach
- Clearly communicated complicated chemical concepts in a concise and understandable manner
- Regularly evaluated and provided constructive written and verbal feedback to students

Coordinator for International Relations

Aug 2019 – June 2021

JET Programme

Fukuroi, Shizuoka, Japan

- Served as an emissary and interpreter to Team Ireland for the 2020 Tokyo Olympics, organizing cultural and sport exchange events
- Engaged with English-speaking spectators of the 2019 Rugby World Cup at a variety of cultural exchange events and press conferences
- Selected to interpret at the Regional Social Welfare Council to assist English-speaking minority citizens in receiving government aid due to financial hardship brought on by the COVID-19 pandemic
- Supported English speaking community members by organizing exchange events to grow a larger culture awareness around diversity and acceptance, with the end goal of creating community and inclusion

Awards & Scholarships

Knight Campus Graduate Internship Program

June 2021 – Present

Inclusion & Diversity Scholarship

University of Oregon

- Awarded a one-time \$8,000 scholarship for experience and passion relating to diversity and inclusion

Suruga Institute

Jan 2020

Research grant for Coordinators for International Relations

- Awarded a ¥200,000 grant to study regional dialect variation within Shizuoka Prefecture, Japan

Ford Family Foundation

Aug 2012 – May 2019

Ford Scholar

Willamette University

- Awarded a scholarship of \$25,000 annually based on leadership, Oregon residency, academic merit and financial need