



Colton Randall

Bioinformatics Research Assistant

I am a personable, driven and detail-oriented biochemistry graduate with experience in bioinformatic data analysis. My passion for learning has enabled me to develop a multifaceted skillset, including the recent addition of self-taught skills in programming, to enable me to work at the intersection of biology and computer science.

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📍 Auckland, New Zealand

🌐 [linkedin.com/in/coltonrandall](https://www.linkedin.com/in/coltonrandall)

EDUCATION

Postgraduate Certificate in Information Technology

University of Auckland

03/2021 - Present

Courses

- Programming for Industry (COMPSCI718)
- Programming with Web Technologies (COMPSCI719)

Bachelor of Science in Biochemistry

University of Otago

02/2015 - 12/2018

Dunedin, New Zealand

WORK EXPERIENCE

Bioinformatics Research Assistant

University of Auckland

07/2020 - Present

Auckland, New Zealand

Achievements/Tasks

- Project 1: Metagenomics and genome assembly/recovery to improve Aquiluna quality.
- Project 2: Performing molecular dynamic simulations of antimicrobial peptides.
- Linux OS, bash and using python scripts for both genome assembly and computational analysis of biological data.

Contact: Kim Handley (Project 1) kim.handley@auckland.ac.nz - Jane Allison (Project 2) j.allison@auckland.ac.nz

Bioinformatics Research Assistant

Manaaki Whenua - Landcare Research

07/2020 - Present

Auckland, New Zealand

Achievements/Tasks

- Reconstructing the evolutionary history of the New Zealand stick insect 'Acanthoxyla' using genomics.
- Genome assembly.
- Bash scripting.

Contact: Thomas Buckley - BuckleyT@landcareresearch.co.nz

Biochemistry Tutor / Demonstrator

University of Otago

07/2018 - 11/2018

Dunedin, New Zealand

Achievements/Tasks

- Assisted entry-level students during practical laboratory sessions.
- Worked collaboratively with other tutors to demonstrate biochemical experiments.
- Explained complex biochemical concepts.

Contact: Kaye Wilson - kaye.wilson@otago.ac.nz

TECHNICAL SKILLS

Programming

Java Fundamentals, Python3, SQL, HTML and JavaScript.

Unix

Bash scripting and terminal/command line proficiency.

Research and Data Analysis

Critical thinking and computational analysis of data and literature. Experience in bioinformatics.

Laboratory Procedures

PCR, western blotting, mass spectrometry, gel electrophoresis, protein purification.

SOFT SKILLS

Communication

Teamwork

Adaptability

Problem-solving

Leadership

Organisation

Initiative

Strong Work Ethic

VOLUNTEER EXPERIENCE

Volunteer Teacher

Elite Visionary High School

06/2016 - 07/2016

Nairobi, Kenya

Tasks/Achievements

- Successfully designed and presented Math and Physics lessons to a class of 40+ students.

Health Administrative Assistant

Kibera Community Health Centre

06/2016 - 07/2016

Nairobi, Kenya

Tasks/Achievements

- Helped sick patients gain access to medicine and treatment.
- Aided nurses and doctors in recording important data.

CERTIFICATES

Java Fundamentals - CodeCademy (11/2020 - 12/2020)

Programming Fundamentals (Python 3) - Coursera (10/2020 - 11/2020)

Python 3 - SoloLearn (08/2019 - 12/2020)

HTML, SQL and JavaScript Fundamentals - SoloLearn (04/2020 - 05/2020)