

# Tek-Jun Ling

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## EDUCATION

### UNIVERSITY OF QUEENSLAND

BE IN CHEMICAL & BIOLOGICAL  
ENGINEERING

Discontinued | St Lucia, QLD

BE IN SOFTWARE ENGINEERING

Expected July 2015 | St Lucia, QLD

BSc IN GENETICS

Expected July 2015 | St Lucia, QLD

### ST. PETERS LUTHERAN COLLEGE

Grad. Dec 2007 | Brisbane, Australia

## LINKS

Github:// [jling90](#)

LinkedIn:// [Jun Ling](#)

## COURSEWORK

### UNDERGRADUATE

Algorithms & Data structures

Computer Graphics

Data Analysis

Information Systems

Operating System Architecture

Machine Learning

Software Design Process

Design Computing

Embedded Systems

Biochemistry & Molecular Biology

Physical Chemistry

Genomics & Bioinformatics

Advanced Genetics

## SKILLS

### PROGRAMMING

Python • R • C • C++

Java • BASH • HTML

JavaScript • CSS • SQL

MATLAB

### TOOLS & IDES

Unix • Microsoft Windows

Git • SVN •  $\text{\LaTeX}$  • Eclipse

IPython Notebook • Vim

Microsoft Visual Studio 2010

## EXPERIENCE

### CSIRO | PROGRAMMER

Sep 2011 – Dec 2013 | St Lucia, QLD

- Produced scripts for parsing and processing .csv files containing weather data and temperature sensor readings.
- Automated filtering and flagging of erroneous or suspicious data and generation of timeseries plots from the cleaned data.
- Field work: aided in assembly and placement of temperature sensors.
- R, HPC Job Manager

Reference: Scott CHAPMAN • +61 (7) 3214 2254 • [scott.chapman@csiro.com](mailto:scott.chapman@csiro.com)

### ACFPG APPLIED BIOINFORMATICS | VOLUNTEER INTERN

Jun 2013 – Aug 2013 | St Lucia, QLD

- Worked independently on a project to perform de novo assembly of Illumina sequence data from seagrass. This involved developing a pipeline in Bash and Python for read trimming, mapping and assembly.
- Gained experience in running jobs on UQ's Barrine HPC cluster using PBS.
- Python, Bash, PBS, High-performance Computing, Linux

Reference: Kenneth CHAN • [c.chan10@uq.edu.au](mailto:c.chan10@uq.edu.au)

### RIO TINTO ALCAN | SUMMER INTERN + CASUAL CONTRACTOR

Nov 2013 – June 2014, Nov 2014 – Dec 2014 | Pullenvale, QLD

- Developed .dll plugins for Microsoft Excel and SysCAD to provide functions for simulating chemical processes. The plugins were distributed among R&D facilities within Rio Tinto Alcan, and to other affiliated research groups.
- Participated in meetings with clients to evaluate and direct project to meet user requirements.
- Produced documentation for end-users and future developers.
- C++, Visual Studio 2010, Git

Reference: Alistair GILLESPIE • +61 (7) 3107 4610 • [alistair.gillespie@riotinto.au](mailto:alistair.gillespie@riotinto.au)

## OTHER PROJECTS

### METNET | PROJECT CO-FOUNDER

September 2013

- Pipeline for analysis and identification of metastatic cancer sub-networks from Gene Ontology and microarray data.
- Python, R, Bash

### SEQFINDR-WEB | AUTHOR

July 2014

- Web tool for dynamic and interactive visualisation of genomic data using Flask and d3.js.
- Public deployment expected Jan 2015.
- Python, HTML, CSS, JavaScript