# 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 • 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

### ACPFG 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

### 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

## PUBLICATIONS

### PHENO-COPTER: A LOW-ALTITUDE, AUTONOMOUS REMOTE-SENSING ROBOTIC HELICOPTER FOR HIGH-THROUGHPUT FIELD-BASED PHENOTYPING | Agronomy

June 2014
Authors: Scott C. Chapman, Torsten Merz, Amy Chan, Paul Jackway, Stefan Hrabar, M. Fernanda Dreccer, Edward Holland, Bangyou Zheng, T. Jun Ling and Jose Jimenez-Berni

### ANALYSIS OF METASTATIC NETWORKS IN CANCER | International Conference in Systems Biology, Melbourne

September 2014
Authors:Van Den Bergen, G, Inglis, JC, Ling, J, Thompson, J, Emerson, M and Davis, MJ.

### IDENTIFICATION OF COMMON DISRUPTED PROTEIN NETWORKS IN METASTASIS ACROSS MULTIPLE CANCER TYPES | 15th International Biennial Congress of the Metastasis Research Society, Heidelberg

June 2014
Authors:Van Den Bergen, G, Inglis, JC, Ling, J, Thompson, J, Emerson, M and Davis, MJ.