

# James Wetter

users.monash.edu.au/~jpwet1

6/40 Northcote Avenue  
Caulfield North, Victoria 3161  
Australia

04 3168 8938  
wetter.j@gmail.com

## Education

---

### **Honours Degree of Bachelor of Computer Science**

**Feb 2011 - Current**

Monash University, Clayton

High distinction average.

Major project on developmental modeling using generalized cylinders consisting of a large mathematical component (differential geometry and linear algebra), and a comprehensive implementation in C++ and OpenGL.

### **Bachelor of Mechatronic Engineering and Bachelor of Science**

**Feb 2008 - Current**

Monash University, Clayton

Majors: Computer Science and Mathematics.

High distinction average (92.17)

Third year project simulating an accretion disc caught in supermassive black hole coalescence. The fluids were simulated with smoothed particle hydrodynamics.

Implementation in Fortran and C.

### **Bachelor of Music Performance**

**Feb 2006 - November 2007**

Victorian College of the Arts, Southbank

Intense practical training as a classical guitarist.

The course was discontinued due to injured finger.

## Core Skills

---

### **Technical**

Comprehensive knowledge of C++, C, Java, Prolog, Perl, Bash, Minizinc, Fortran, LISP, HTML, Latex. Strong UNIX skills, particularly OS X and Linux (Ubuntu, OpenSUSE, Fedora). Comfortable with version control systems (Git, Mercurial, SVN etc.).

### **Scientific**

A variety of scientific skills developed during completion of course work and several large projects. Strong problem solving and analytic modeling skills, Succinct and clear communication of complex ideas.

### **Other**

Creative approach to problem solving further developed by studies in music performance and composition. Excellent time management skills demonstrated by maintaining casual employment during full time study.

# James Wetter

users.monash.edu.au/~jpwet1

## Awards and Achievements

---

<b>Top of Class</b>	'MTH3110: Differential Geometry', 'FIT3014: Analysis and Design of Algorithms', 'FIT3042: System Tools and Programming Languages', 'FIT2004: Algorithms and Data Structures', 'MTH2021: Linear Algebra with Applications', 'PHS1022: Physics', 'PHS1011: Physics'
<b>Dean's List</b>	2010, 2009, 2008 (Science) 2009 (Engineering)
<b>Scholarships</b>	2011 Monash Undergraduate Research Projects Abroad (MURPA) scholarship recipient

## IT Experience

---

### **Teaching Associate IT** **June 2011 - Current**

Monash University, Clayton

Employed to design and implement an automated course planning system. Personally responsible for modeling course structure with linear constraints and implementing the model in prolog. Also responsible for the integration of planning backend with Java-based user interface written by a colleague.

### **Research Assistant** **Feb 2010 - Nov 2010**

Monash University, Clayton

Employed to design and implement a 2D scientific plotting library, intended as a replacement for pgplot in Dr. Daniel Price's 'SPLASH' visualisation tool for astrophysical simulation data. Design goals were portability across UNIX systems and minimal dependencies. Main body of the code was written in C along with a Fortran95 interface.

## Non-IT Experience

---

### **Music Teacher** **Nov 2007 - Current**

Glenroy Music Centre, Glenroy

Responsible for the planning and delivery of guitar lessons.  
Required to cater to a variety of students of differing ages, skill and styles.

### **Retail Assistant** **Sep 2007 - Mar 2010**

Woolworths Liquor, Niddrie

Point of sale, including register operation, EFTPOS and credit card sales.  
Required to assist customers, including handling complaints.  
Restocking shelves.  
Responsible service of alcohol.

# James Wetter

users.monash.edu.au/~jpwet1

## Interests

---

Keen guitar player, primarily classical but also performed as part of several rock bands and a big band. Enjoy cycling to work, university and at any other opportunity.

## Referees

---

### **Dr. Daniel Price**

*Previous employer*

Phone: +61 (0)3 9905-1760

Email: daniel.price@monash.edu.au

School of Mathematical Sciences  
Monash University  
Clayton, Victoria 3168  
Australia

### **Lindy Hawthorn**

*Current employer*

Phone: +61 (0)3 9306 7570

Email: glenroymusic@live.com.au

Glenroy Music Centre  
827 Pascoe Vale Rd  
Glenroy, Victoria 3046  
Australia

### **Associate Professor Jon McCormack**

*Project Supervisor*

Phone: +61 (0)3 9905 9298

Email: Jon.McCormack@monash.edu

Centre for Electronic Media Art  
Clayton School of Information Technology  
Monash University  
Clayton, Victoria 3800  
Australia