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## Buck Shlegeris <bshlegeris@gmail.com>

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(510) 809-7340

<http://buckshlegeris.github.io>

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### EMPLOYMENT

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**Australian National University**

*Dec 2013 – present*

**Web development contractor**

- Built, deployed, and maintained a new submission system for the Introduction to Computer Science course.

**App Academy**

*2013*

**Teaching Assistant**

- Developed curriculum. Wrote and presented lectures. Provided one-on-one instruction and feedback. Developed and maintained internal Rails and Backbone tools. Taught Ruby, Rails, Javascript, and Backbone.js. Interviewed and vetted applicants.

**Australian National University**

*Jan 2014 – present*

**Teaching Assistant**

- Provided instruction in introductory Python and Haskell, as well as data structures and algorithms. Developed assignments and exams. Delivered oral exams.

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### EDUCATION

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**Undergraduate:**

**Australian National University**

*2012-2013*

**Bachelor of Advanced Computing/Bachelor of Science (Physics) (not completed)**

- Left after two years, with a High Distinction average
- Undergraduate coursework: Information theory, artificial intelligence, algorithmic information theory and universal AI, theory of programming languages, computer architecture, linear algebra and ODEs, theory of computation
- Took research courses and honours level courses in my second year

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### SELECTED PROJECTS

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**Australian National University**

*Nov 2013– current*

**Submission App**

- Submission system in Rails, jQuery, and Unix shell scripting.
- Significant test suites (over 100 tests), to ensure reliability
- Designed interface for lecturers to customise behaviour of assignments on submission (e.g. Haskell compilation, automatic marking against test specs)

**Graphical Equation Manipulator, Python prototype ([github.com/buckshlegeris/pygem](https://github.com/buckshlegeris/pygem))**

*2013*

- Software for manipulation of equations in physics. Like Mathematica but user friendly and aimed at physics students.
- Used Python, Sympy, Tkinter.
- Developed software from conception to prototype to user studies with eleven users.
- All eleven subjects thought the software let them work faster than Mathematica did.

**Graphical Equation Manipulator, Coffeescript port ([matthewja.com/gem](https://matthewja.com/gem))**

*Nov 2013–current*

- Supervised and assisted another web developer as he ported my Graphical Equation Manipulator and some of Sympy to Coffeescript
- Designed the computer algebra system Coffeequate, which we built for the project. Coffeequate is now the most fully featured CAS available for Javascript.
- Developed the pretty printing facilities of Coffeequate.

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### SKILLS

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*In descending order of expertise:* Ruby, Python, Rails, Haskell, Unix, Javascript, HTML/CSS, C, untyped lambda calculus, Java