

Dr. Andrew Noske PhD BIT(hons)

confidential over web, Campbell, CA, 95008
cell: (858) 349 2901 : andrew.noske@gmail.com
<http://www.andrewnoske.com/>

Work Experience

Google – Maps Department, Bay Area 2012-present

Level 4 Software Engineer

- Developed and launched several systems for crowdsourcing and machine learning in order to analyze, rank and display various types of geo-tagged imagery in Google Maps and Google search results.
- Helped development of backend photo ingests and logs analysis.
- Launched Google Consumer Studies for market analysis.
- Primary technologies used: C++, JavaScript, python and Google backend technologies (Map Reduce, etc).

University of California, San Diego 2010-2012

Postdoctoral Employee

Advisor: *M Ellisman, National Center for Microscopy and Imaging Research*

- Developed segmentation and analysis tools for electron microscopy data using Qt.
- Developed educational content and sets of 3D movies of our data and discoveries using Cinema 4D and IMOD.
- Worked on a citizen science platform for collaborative image segmentation in Unity3D.

Institute for Molecular Bioscience, Brisbane 06-07/2006

Game Developer

- Developed prototype educational 3D game in C++, OpenGL and another in Flash.

Queensland Government, Cairns 01-03/2003

Web Developer

- Designed dynamic website for Queensland senator Jan McLucas.

Education

University of Queensland, Brisbane 2005-2009

PhD, Computational and Cell Biology

Advisor: *A Marsh, Institute for Molecular Bioscience*

Thesis title: *Multi-scale, spatio-temporal analysis of mammalian cell tomograms*

Specialty: *Image segmentation, 3D analysis & electron microscopy*

James Cook University, Cairns 2001-2004

Bachelor of Computer Science with Class 1A Honors, GPA 6.84 on a 7.0 scale

Skills

- C/C++, Javascript, Python, C#, Java, HTML, CSS, XML, PHP, JSP, MySQL, Unix shell scripting
- Qt, OpenGL, Unity, Subversion, Mercurial, MediaWiki, ActionScript, Octave, experienced with all OS

Teaching Experience:

Information Technology Department, James Cook University 2003-2004

Teaching assistant and tutor in six different subjects:

- Assisted with: *Software Engineering, Multimedia, Internetworking Basics, Internetworking Advanced, Computer Graphics & Object Oriented Software Engineering*
- Ran tutorials, assisted in remotely taught subjects, graded, posted solutions and notes.

Awards & Leadership:

- Australian Postgraduate Award Scholarship for PhD, 2005-2009
- Biochemical Journal Young Investigator, 2008
- University Medal at James Cook University, 2004
- Hunter Metal and Don Close Prize for Software Engineering, Faculty of Science and Engineering Scholarship, Software Engineering Australia Scholarship, Bioinformatics Honours Scholarship, 2001-2004
- School Captain and Dux of Smithfield State High School, 2000

Publications:

Mapping the beta cell in 3D at the nanoscale using novel electron tomography and computational approaches

AB Noske, BJ Marsh, *BetaSys*, Springer-Verlag, Chapter 9, 2010 (invited book chapter)

Expedited approaches to whole cell electron tomography and organelle mark-up in high-pressure frozen pancreatic islets. AB Noske, AJ Costin, GP Morgan and BJ Marsh, *J Struct Biol*, 161:298-313, 2007

References:

Mr. Jeremy Pack, oryol@google.com
Dr. Phillip Musumeci, pmusumeci@gmail.com

for written references and full length resume:
www.andrewnoske.com/professional/