

Dr Brian Ballsun-Stanton

SOLUTIONS ARCHITECT (DIGITAL HUMANITIES)

Faculty of Arts, Macquarie University, NSW 2109

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Personal Profile

Solutions architect with over 8 years designing and delivering technical solutions for academic and student research projects at the Macquarie University Faculty of Arts and UNSW Australia. Chief Investigator in grants and prizes across the humanities and social sciences totalling over AUD\$2,610,000. These have included Technical Director for a field-data collection project, delivering 50+ field data collection modules since 2013. Active member of The Carpentries Trainers Leadership group, Instructor Trainer, and Instructor in good standing. Lead instructor for 10+ carpentries workshops delivered since 2017 and active in local initiatives such as the Research Bazaar Sydney. Developed a partnership with Ubisoft that led to Macquarie University's engagement on the Google Arts and Culture Platform, using AI to assist researchers in translating Ancient Egyptian Hieroglyphs. Co-supervised two MRES students using technology as a fundamental component of their research. Provision of technical advice, database designs and solution-focused support for academic and student research projects across Australian and International academic institutions. An internationally respected researcher in the Digital Humanities with eleven peer-reviewed publications, book-chapters, and conference presentations.

Education

UNSW Australia

2012

PHD IN PHILOSOPHY

Sydney, Australia

- Recipient UNSW University International Postgraduate Award
- Dissertation: *Asking about data: exploring different realities of data via the social data flow network methodology.*
- Supervisor: Dr Anthony Corones

Rochester Institute of Technology

2007

MS IN INFORMATION TECHNOLOGY

Rochester, New York, United States

- 2006 – Deborah Cahn Memorial Scholarship, awarded to significant mentors of the student community.
- Full scholarship: Department Graduate Assistantship in Databases
- Thesis: *The Manta Project: Conception, Implementation, and Reflections on a Cable Array Robot and its Interfaces*
- Supervisor: Dr Jon Schull

Rochester Institute of Technology

2005

BS IN INFORMATION TECHNOLOGY

Rochester, New York, United States

- 2005 – Awarded RIT Scholar (University Medal)
- Graduated with Highest Honors
- Double Minors in Philosophy and Communications

Academic Employment

Macquarie University

2018 – Present

SOLUTIONS ARCHITECT (DIGITAL HUMANITIES)

Sydney, Australia

- Worked with colleagues to design, develop, and deploy data pipelines and outputs for their research. Onwork.edu.au, twice featured in The Australian, is an ongoing collaboration with Prof JP Deranty, transforming a 1000+ citation Paperpile database into an online resource.
- Developed Data Management standards and online courseware in compliance with the new NHMRC rules with the Macquarie University Research Integrity Secretariat.
- Worked with Prof Sean Brawley as the Data Architect and Senior Developer for his Course Health Check dashboard.
- Organised and was a lead instructor for 10+ Software Carpentry and Carpentries Instructor Training workshops.
- Won a U.S. Challenge.gov Prize for designing an innovative offline-capable field data collection framework with A/Prof Shawn Ross.
- Brought Macquarie University on as a partner on Google Arts and Culture.
- Collaborated with Ubisoft and Google on the Hieroglyphics Initiative/Fabircius.
- Supported academics and students across the faculty to design, deliver, and deploy technical solutions to academic research problems.

Macquarie University

2015 – 2018

TECHNICAL DIRECTOR, FIELD ACQUIRED INFORMATION MANAGEMENT SYSTEMS (FAIMS) PROJECT

Sydney, Australia

- Supported a major code update and capability extension for FAIMS 2.
- Designed, edited, and typeset a grant-funded “User to Developer Guide”.
- Provided emergency remote support for teams using FAIMS in the field worldwide.
- Deployed 47 field-ready modules with custom data export capabilities into CSVs, shapefiles, JSON, ConTeXt, and KML.
- Maintained and supported virtual machines for all FAIMS infrastructure.

UNSW Australia

2012 – 2015

DATA ARCHITECT, FEDERATED ARCHAEOLOGICAL INFORMATION MANAGEMENT SYSTEMS (FAIMS) PROJECT

Sydney, Australia

- Directed FAIMS development goals for a successful mobile app launch.
- Deployed seven field modules and exporters to convert data into CSVs and shapefiles.
- Developed a domain-key normal form data structure, XML and XSLT transforms for data specification, and appropriate database queries to convert XML into a spatially enabled SQLite database.
- Administered all FAIMS infrastructure, designing and managing project virtual machines and management infrastructure.

Rochester Institute of Technology

2007 – 2008

ADJUNCT PROFESSOR, DEPARTMENT OF INFORMATION TECHNOLOGY

Rochester, New York, United States

- Significant experience teaching in hearing and hard of hearing combined units. All units taught had live American Sign Language interpreter support.
- Taught and convened undergraduate and graduate level Information Technology units in databases and requirements assessment.
- Helped to develop the Data Warehousing graduate unit.

Publications

JOURNAL ARTICLES

- 2018 Ballsun-Stanton, B., Ross, S. A., Sobotkova, A., & Crook, P. FAIMS mobile: Flexible, open-source software for field research. *SoftwareX*, 7, 47–52. <https://doi.org/10.1016/j.softx.2017.12.006>
- 2018 VanValkenburgh, P., Silva, L. O. G., Repetti-Ludlow, C., Gardner, J., Crook, J., & Ballsun-Stanton, B. Mobilization as mediation: Implementing a Tablet-Based recording system for ceramic classification. *Advances in Archaeological Practice*, 1–15. <https://doi.org/10.1017/aap.2018.12>
- 2013 Ross, S., Sobotkova, A., Ballsun-Stanton, B., & Crook, P. Creating eresearch tools for archaeologists: The federated archaeological information management systems project. *Australian Archaeology*, 77(1), 107–119.
- 2010 Ballsun-Stanton, B. Asking about data: Experimental philosophy of information technology. *5th International conference on computer sciences and convergence information technology*, 119–124.
- 2010 Ballsun-Stanton, B., & Carruthers, K. #c3t the command & control of twitter: On a socially constructed twitter & applications of the philosophy of data. *Computer Sciences and Convergence Information Technology (ICCIT), 2010 5th International Conference on*, 161–165.
- 2010 Carruthers, K., & Ballsun-Stanton, B. #c3t an agreeable swarm: Twitter, the democratization of media & non-localized proximity. *Computer Sciences and Convergence Information Technology (ICCIT), 2010 5th International Conference on*, 166–169.
- 2009 Ballsun-Stanton, B., & Bunker, D. Philosophy of data (pod) and its importance to the discipline of information systems. *Americas Conference on Information Systems 2009*, Paper–435.

Grants and Prizes

SUMMARY

\$2,264,254 **total external competitive grant income**
6 **grants awarded**

2012 – Present

2012 – Present

GRANTS

Partner Funded Research

2020 – 2021

TIER 2 RESEARCH FUNDING

AUD \$200,000.00

NULL

Macquarie University

Lead: Collaborators from two universities.

Australian Research Council Linkage Project

2018 – 2020

(LP170100050) INDIGENOUS FOODWAYS IN COLONIAL CAPE YORK PENINSULA

AUD \$301,254.00

Morrison, M., D. McNaughton, H. Burke, I. Moffat, S. Ross, A. Sobotkova, B. Asmussem, B. Ballsun-Stanton, and D. Claudie

Flinders University

Trace historical Indigenous foodways in colonial Cape York Peninsula, Queensland, through a program of collaborative community-based archaeological and anthropological research. Lead: A/Prof Mick Morrison.

New South Wales Government Research Attraction & Acceleration Program

2016 – 2018

FIELD ACQUIRED INFORMATION MANAGEMENT SYSTEMS (FAIMS) PROJECT

AUD \$400,000.00

Ross, S., A. Sobotkova, B. Ballsun-Stanton

Macquarie University

Continue development of the Federated Archaeological Information Systems Project, especially customisation and deployment at participating fieldwork projects. Lead: A/Prof Shawn Ross.

National eResearch Collaboration Tools and Resources, eResearch Tools program

2015 – 2015

(V005) USER SUPPORT FOR VIRTUAL LABORATORIES AND ERESEARCH TOOLS

AUD \$13,000.00

Ballsun-Stanton, B., A. Sobotkova, and S. Ross

Macquarie University

Improve documentation for the Federated Archaeological Information Management Systems Project. Lead: Dr Brian Ballsun-Stanton.

Australian Research Council Linkage, Infrastructure, Equipment and Facilities Grant

(LE140100151) FEDERATED ARCHAEOLOGICAL INFORMATION MANAGEMENT SYSTEMS PROJECT: TRANSFORMING

2014 – 2015

ARCHAEOLOGICAL RESEARCH THROUGH DIGITAL TECHNOLOGIES

AUD \$400,000.00

Ross, S., D. Curnoe, J. Field, M. Letnic, S. Mooney, J. Hunter, A. Fairbairn, M. Weisler, T. Manne, J. Thompson, I. Johnson, M.

UNSW Australia

Gibbs, T. Murray, J. Webb, N. Stern, D. Frankel, H. Burke, M. Morrison, I. Davidson, W. Boyd, J. Thurbon, A. Brin, E. Kansa, S.

Schloen, J. Richards

Continue development of the Federated Archaeological Information Systems Project, especially customisation and deployment at participating fieldwork projects. Lead: A/Prof Shawn Ross.

National eResearch Collaboration Tools and Resources, eResearch Tools program

2012 – 2013

(RT043) FEDERATED ARCHAEOLOGICAL INFORMATION MANAGEMENT SYSTEMS

AUD \$950,000.00

Ross, S., A. Sobotkova, P. Crook, and B. Ballsun-Stanton.

UNSW Australia

Development of mobile device applications, database interoperability tools, knowledge discovery strategies, and other resources for archaeological information management. NeCTAR is an Australian Government project and Super Science initiative financed by the Education Investment Fund. Lead: A/Prof Shawn Ross.

PRIZES

Challenge.gov prize: US Bureau of Reclamation, US Geological Survey

2018

DATAAPP: A MOBILE APP FRAMEWORK FOR FIELD DATA CAPTURE - STAGE 1

USD \$5,625

Ballsun-Stanton B., S. Ross and S. Cassidy

Macquarie University

Prize in a challenge.gov / innocentive.com competition sponsored by the US Bureau of Reclamation and the US Geological Survey. Selected as one of seven winners from 167 entries (4% success rate). (<https://gw.innocentive.com/ar/challenge/9933881>.)

Projects

SUMMARY

4	projects with external funding , excluding FAIMS sub-projects	2012 – Present
10	projects with external impact , excluding FAIMS sub-projects	2012 – Present
22	total projects , excluding FAIMS sub-projects	2012 – Present
64	FAIMS sub-projects , modules, extensions, and custom exporters	2014 – Present

PROJECT DETAILS

Implementing FAIR: Standards in Research Data Management at Macquarie University

2019 August – Present

DATA MANAGEMENT STANDARDS, ARTICULATE 360

Dr Shannon Smith, MQ

- Collaborated on content creation and editing for the ARDC fair data online course grant.
- Worked with the Research Integrity Secretariat to interpret and communicate new Data Management Standards and increasing obligations for FAIR data publication, security, and backup strategies.

Macquarie University Data Management Standards

2019 May – Present

NHMRC DATA MANAGEMENT STANDARDS, CLOUDSTOR, NSW PRIVACY AND RECORDS ACTS

Research Integrity Secretariat MQ

- Specified technical requirements and collaborated in designing the new Macquarie University Data Management Standards.

onwork.edu.au

2019 March – Present

PYTHON, GIT, JEKYLL, HTML, JS, CSS

Prof JP Derante, MQ

- Deployed python and web infrastructure to scrape, convert, and present 1000+ citations by theme, keyword, and author on a static and highly-responsive website.
- Featured in The Australian and DailyNous.

Securing Life in Trust

2018 October – Present

NLTK, JUPYTER, PYTHON, GIT, OPEN SCIENCE FRAMEWORK, ~~WTeX~~

Dr Chavalin Svetanant, MQ

- Analysed Japanese Insurance advertisements using MeCAB and Python's Natural Language Processing and a SQLite database.

City of Rome Blog

2018 August – Present

JEKYLL, GIT, GITHUB PAGES, DNS, CLOUDFLARE CDN

PACE Students and Prof Laurence, MQ

- Supported Macquarie University PACE students in editing and publishing articles on a dedicated Jekyll static-site blog hosted on Github Pages.
- Taught Ancient History students how to use Markdown, Pandoc, and Git Version Control to accomplish their publication objectives.

Ancient History Blog

2018 January – Present

GOOGLE AMP, JEKYLL, GIT, GITHUB PAGES, DNS, CLOUDFLARE CDN, HTML, JS, CSS

Department of Ancient History, MQ

- Created a branding-compliant Accelerated Mobile Pages blog template to support the Department of Ancient History's outreach efforts.
- Used Cloudflare CDN, and Google Analytics, on top of a Github Pages infrastructure to present a fast and responsive blog experience.

Google Arts and Culture

2016 October – Present

CSV, GOOGLE CLOUD

Faculty of Arts, MQ

- Brought Macquarie University on as the first full university partner on Google Arts and Culture.
- Created relationships between the university and Google as project lead.

Archipelagos Journal

2016 May – Present

CONTEXT, MARKDOWN, PYTHON, GIT, JEKYLL

Dr Alex Gil, Columbia University

- Invited to be editor for the Archipelagos Journal.
- Created Context publication infrastructure and a markdown to pandoc production workflow to support Open Source Journal publishing.

Field Acquired Information Management Systems Project (FAIMS)

2012 July – Present

SQL, SQLITE, SPATIALITE, GIS, RUBY, JAVA, BEANSHELL, PYTHON, CSV, SHAPEFILES, BASH

A/Prof Shawn Ross, MQ

- Designed all data structures for the FAIMS Project: an XML to append-only Domain Key Normal form GIS enabled SQLite database using XSLT transforms. Created custom and generalised exporters from the append-only datastore into CSV, JSON, XML, Context, and Shapefile formats.
- Managed deployment and provided on-call emergency support worldwide for all field data collection modules.

Recent Publications Display and Video Wall

2020 May – 2020 June

FFMPEG, GNU PARALLEL, BASH, SHAREPOINT, JEKYLL, PYTHON, RSS

Arts Precinct, MQ

- Automated creation of a "Video Wall" combining RSS feeds, video, and images into a single presentation format.
- Programmed NCI Tenjin cloud computers to leverage High Performance Compute to automate ffmpeg processing of video and image components.

Course Health Check – Stage 1

2019 September – 2019 December

SQL, ORACLE, SQLITE, TABLEAU

PVC Sean Brawley, MQ

- Seconded as a Data Architect and Senior Developer for this chancellor level initiative.
- Performed extract-transform-load steps and database design getting data from multiple incompatible university data warehouses to present a unified measure of a course's viability.

Facebook Far-Right Data Analysis

2019 September – 2019 October

PYTHON, NATURAL LANGUAGE PROCESSING (SPACY), GGPLOT, GIT, JUPYTER NOTEBOOKS, CSV

Dr Julian Droogan, MRES Student, MQ

- Used Jupyter Notebooks, NLTK, and doctests to perform linguistic analysis of multiple years of Facebook posts.

Macquarie University Limesurvey Deployment

2019 September – 2019 September

LIMESURVEY, AUSTRALIAN ACCESS FEDERATION

Office of the DVC (Research)

- Managed Macquarie University's adoption of Limesurvey, specified requirements, and ensured good connectivity with the single signon service offered by the Australian Access Federation.

trustpoliticsfear.github.io

2019 March – 2019 April

JEKYLL, GIT, GITHUB PAGES

Dr Randa Abdel Fattah, MQ

- Deployed a project website for an ARC funded project.
- Taught an academic how to use markdown and Git to publish her content onto Github Pages.

Trove to Endnote Generator

2018 November – 2019 January

PYTHON, BASH, ENDNOTE

Dr Isobelle Barrett Meyering, MQ

- Extended the 'Trove Harvester' by Tim Sherratt to create endnote bibliographies with attached PDFs from queries against Trove APIs

MQ Unit Handbook Scraper

2018 July – 2018 November

SQL, GRAPHVIZ, WEBSCRAPING, PYTHON, CSV, ORACLE

Neil Durrant, PACE Students, MQ

- Scraped and transformed Unit and Course data from the online Student Handbook and data warehouses to answer course load and unit dependency questions from the Faculty executive and heads of departments.

Fabricius / Hieroglyphics Initiative

2018 June – 2020 July

MACHINE LEARNING

Ubisoft, Google, Dr Alexandra Woods, MQ

- Advised and tested Fabricius (the Hieroglyphics Initiative Workbench), a 'tool using the power of AI to help decode ancient languages.'
- Produced and edited documentation, audio, and video in support of the Fabricius launch on Google Arts and Culture.

Web scraping Library Carpentry

PYTHON, WEBSCRAPING, JEKYL, SCRAPY, GIT

2018 May – 2018 July

Intersect Australia

- Updated Library Carpentry's web scraping lesson to better fit an international context and use more accessible technology.
- Featured as part of Intersect Australia's (a NSW training and software development provider for the university sector) training workshops.

Greek and Latin Epigraphy Scrapers

WEBSCRAPING, PYTHON, CSV, JUPYTER NOTEBOOKS

2018 March – 2018 November

Prof Ray Laurence, MQ

- Wrote a command line and Jupyter notebook scraper for a number of epigraphy websites to allow scholars to download well formatted CSV outputs from Greek and Latin epigraphy sites.

Object Based Learning

CSV, PYTHON, JEKYL, GIT, HTML, CSS, JS, RESPONSIVE DESIGN

2017 August – 2019 April

Jane Thogersen, Eve Guerry, MQ

- Integrated pedestal3d and Google Sheets using Python to automatically create a Jekyll website hosted on Github Pages to support high school learning activities.

Beni Hassan Research Group

GOOGLE SHEETS, PYTHON, CONTEXT, GRAPHICSMAGICK, INKSCAPE

2017 February – 2018 October

Dr Alexandra Woods, MRES Students, MQ

- Collaborated with faculty and students to extract photos and data from an egyptological tomb report and prepare it for online publication. This extracted data was then presented in PDF and on BeniHassan.com.

UNSW Course Student Workload Assessment Tool

PHP, MYSQL, JQUERY

2013 July – 2014 January

Prof Sean Brawley, UNSW Australia

- Built a student workload estimator, integrating academic research with university workflows to produce an estimation tool that allowed all units in the faculty to calculate and standardise their assessments to a consistent desired workload.

Workshops and Presentations

SUMMARY

10	Carpentries Workshops , Carpentries branded events and instructor training	2017 – Present
14	Long workshops	2017 – Present
3	Invited presentations	2019 – Present
4	Selected on-campus presentations	2016 – Present
9	Peer-reviewed conference presentations	2006 – Present
31	Total presentations and workshops	2006 – Present

LONG WORKSHOPS

Introduction to Active Data Management

LEAD INSTRUCTOR

2020 April

Online Workshop, Macquarie University

- 1 Day Software Carpentry themed workshop

Annotated Data Management Guidelines

LEAD INSTRUCTOR

2020 April

Online Workshop, Macquarie University

- Collaboration with the Research Integrity Secretariat, presenting the new data management plan standards

Jupyter Notebooks

CO-INSTRUCTOR

2020 April

Online Workshop, Macquarie University

- In collaboration with the ARDC, teaching HDRs and ECRs about Jupyter notebooks

Software Carpentry inspired: From a Spreadsheet to a Database, SQL Intensive workshop

SOLE INSTRUCTOR

2020 January

Macquarie University

- 2 day workshop providing in-depth SQL training and hands-on database design for Faculty of Arts MRES students.

Software Carpentry: Python, Bash, SQL

LEAD INSTRUCTOR

2019 October

Research Bazaar 2019 Software Carpentry
Workshop, UNSW Australia

- 2 Day Software Carpentry Workshop

Software Carpentry: Train-the-Trainer

INSTRUCTOR

2019 July

Macquarie University

- 2 day Carpentries workshop on training-the-trainers

Software Carpentry: Train-the-Trainer

LEAD INSTRUCTOR

2019 May

Curtin University

- 2 day Carpentries workshop on training-the-trainers

Software Carpentry: SQL, Bash, Git

LEAD INSTRUCTOR

- 2 Day Software Carpentry Workshop

Transparent data practice for reliable and reproducible research Workshop

PRESENTER

- 1 day workshop on transparent research practices

Software Carpentry: Python, Bash, Git

LEAD INSTRUCTOR

- 2 Day Software Carpentry Workshop

Software Carpentry: SQL, Webscraping, and Spreadsheet to a Database

LEAD INSTRUCTOR

- 2 Day Software Carpentry Workshop

Software Carpentry: R, Bash, and Git

LEAD INSTRUCTOR

- 2 Day Software Carpentry Workshop

Software Carpentry: R, Bash, and Git

LEAD INSTRUCTOR

- 2 Day Software Carpentry Workshop

Software Carpentry: Python, Bash, Git

HELPER

- 2 Day Software Carpentry Workshop

INVITED PRESENTATIONS

Remote Research Challenges 3: Remote Data Storage and Analysis

PANELIST

- Invited panellist to demonstrate innovative ways of using CloudStor in Academic Research

State presentation

PRESENTER

- Project brief

Lessons learned from Data Analysis projects in Natural Language Processing with Japanese and Security Studies data - Shell Scripts, Jupyter Notebooks, and the value of doctests

PRESENTER

- Remote presentation to scholars at Aarhus regarding the value of scripted doctests in a research context.

CAMPUS PRESENTATIONS

The Case for Work, eResearch Talk

PRESENTER

- Talk for PVC Peter Nelson's eResearch series on development of onwork.edu.au

Analysis Before the Spade

PRESENTER

- Presenting a book chapter on the need for preregistration in Archaeology

Git for Macquarie R Users Group

PRESENTER

- On the importance of incorporating Git into academic workflows

Open Data, The Reproducibility Problem, and Sympathetic Magic

PRESENTER

- Presentation for the Macquarie Minds Event

2019 April

Software Carpentry Workshop, Macquarie University

2018 November

Macquarie University Library

2018 October

Software Carpentry Workshop, Macquarie University

2018 July

Research Bazaar 2018 Software Carpentry Workshop, Macquarie University

2017 September

Software Carpentry Workshop, Macquarie University

2017 August

Software Carpentry Workshop, Macquarie University

2017 March

University of Technology, Sydney

2020 June

AARnet Webinar

2019 November

Confidential

2019 November

Digital Approaches to Research in Humanities and Social Sciences Workshop, Aarhus University

2019 December

Macquarie University Library

2019 November

CACHE Workshop, Macquarie University

2018 August

MQ R Users Group, Macquarie University

2016 December

Macquarie Minds 2016

CONFERENCE PRESENTATIONS

Arbitrary Offline Data Capture on all of your Androids: The FAIMS Mobile Platform

PRESENTER

- Presenting on FAIMS2 architecture

2013 March
Computer Applications in Archaeology
conference, Perth

FAIMS & Open Source Applications in Archaeology

PRESENTER

- Presenting on FAIMS1 prototype

2013 January
World Archaeological Conference 7, Jordan

Extending the ETL Process Through a Working Data Interchange Graph and Understanding Different Realities of Data

PRESENTER

- Presenting design constraints of FAIMS as seen through the Philosophy of Data

2012 October
eResearch Australasia 2012

What is Data: some Different Philosophies of Data

PRESENTER, HOST

- Presenting the Philosophy of Data to archaeologists at the FAIMS Workshop

2012 August
FAIMS Workshop

#c3t An Agreeable Swarm: Twitter, the Democratisation of Media & Non-Localised Proximity

PRESENTER

- Presenting co-authored Twitter research with Kate Carruthers

2010 November
International Conference on Computer and
Information Technology 2010

#c3t The Command & Control of Twitter: on a Socially Constructed Twitter & Applications of the Philosophy of Data

PRESENTER

- Presenting co-authored Twitter research with Kate Carruthers

2010 November
International Conference on Computer and
Information Technology 2010

Asking about Data: Experimental Philosophy of Information Technology

PRESENTER

- Presenting dissertation research about the Philosophy of Data.

2010 November
International Conference on Computer and
Information Technology 2010

Flying a Manta with Gesture and Controller: An Exploration of Certain Interfaces in Human-Robot Interaction

PRESENTER

- Presenting thesis research at the Gesture Workshop 2007 in Lisbon, Portugal

2007 May
Gesture Workshop 2007

The Manta Project

PRESENTER

- Presented Masters research (Giant wire-guided "manta ray" controlled via haptic glove) for (re)Actor, London

2006 August
ReActor

Reviewing and Organising

Research Bazaar Sydney 2019

ORGANISING COMMITTEE

2019
UNSW Australia

ACIS2019: 30th Australasian Conference on Information Systems

PEER REVIEWER

2019
Perth, Australia

International Association for Computing And Philosophy Conference

PROGRAM COMMITTEE, PEER REVIEWER

2018
Warsaw, Poland

Research Bazaar Sydney 2018

ORGANISING COMMITTEE

2018
Macquarie University

International Association for Computing And Philosophy Conference

PROGRAM COMMITTEE, PEER REVIEWER

2017
Stanford

Archaeplagos Journal

PRODUCTION EDITOR

2016 – Present
Columbia University

Supervision

Masters by Research, Ancient History

BREE KELLY (CO-SUPERVISOR)

Topic: Investigating Machine Learning in the Fabricius tool

2020 ongoing

Macquarie University, Faculty of Arts

Masters by Research, Sociology

KATHRYN ELLIOTT (CO-SUPERVISOR)

Thesis: *The Expert in the Aisles: Exploring supermarket narratives in Coles and Woolworths magazines from 2009-2014 using machine learning techniques.*

2019

Macquarie University, Faculty of Arts

Teaching

Digital Humanities (Graduate)

FOAR705 – CO-CONVENER

2016, 2017, 2019

Macquarie University, Faculty of Arts

Arts and Social Sciences Capstone

ARTS3991 – LECTURER

2014

UNSW Australia

Introduction to Multimedia

4002-320-01 – CONVENER

2012

Rochester Institute of Technology

Introduction to Databases (Undergrad) / Data Object Development (Graduate)

4002-360-01 / 4002-720-01 – CONVENER

2007, 2012

Rochester Institute of Technology

Infrastructure and Security

INFS2607 – LECTURER

2014

UNSW Australia

Information Systems in Business

INFS1602 – TUTOR

2014

UNSW Australia

Fundamentals of Client Server Interaction

4002-484-01 – CONVENER

2008

Rochester Institute of Technology

Fundamentals of Data Modelling

4002-461-01 – CONVENER

2007

Rochester Institute of Technology

Skills

Databases

SQL, Database Design, ETL, Data Warehousing, SQLite, Oracle, PostgreSQL, MySQL

Philosophy

Metascience, Philosophy of Science, Philosophy of Technology, Philosophy of Data

Programming

Python, HTML, Javascript, SASS, CSS, PL/SQL, Java, R

DevOps

Bash, DNS, Restic, GNU Parallel, Imagemagick, ffmpeg, Jekyll, Git, Github, OpenStack, AWS

Typesetting and Design

ℒ_{TeX}, ConT_{Ex}t, BibT_{Ex}, Adobe Indesign, Markdown and Pandoc, Inkscape, Photoshop

Teaching

Badged Carpentries Instructor Trainer, Badged Carpentries Instructor

Project Management

Requirements elicitation, Agile SDLC, Rational Unified Process, Waterfall

Geographic Information Systems

Spatialite, OSGeo(GDAL/OGR), GeoJSON