

ADAM BIGNOLD

RESEARCHER / ACADEMIC

 Website

www.adambignold.com.au

 Phone

0429 341 132

 Email

abignold@gmail.com

+ EMPLOYMENT

- 2013–2018

Federation University Australia

Researcher

Researched, published, and implemented techniques in the fields of reinforcement learning and group reasoning. Performed human trials, gathered and analyzed data, and published/pre-sented findings. Contributed to research projects through collaboration and industry partnerships.
- 2011–2018

Federation University Australia

Course Coordinator, Lecturer,

Coordinated and lectured a variety of courses including programming, game and web design, and final-year capstone projects, for both HE and TAFE. Responsible for course design for TAFE.
- 2015

Grammatikus

Full Stack Developer

Responsible for front/backend development of online game aimed at teaching children English fundamentals. Implemented database changes and managed cloud-services.
- 2009–2014

I.B.M.

Mainframe/Midrange Security Administrator

Responsible for implementing and managing security systems of government agencies, banks, and border protection. Managed accounts of over two-million users and transactions of the foreign exchange market.

+ EDUCATION

- 2018

PhD - Machine Learning

Faculty of Science and Technology

Federation University Australia
- 2014

B.I.T. (Professional Practice) (First-Class Honours)

Faculty of Science and Technology

Federation University Australia

+ PROFESSIONAL SKILLS

| | average | good | skilled |
|----------------------|--|--|--|
| Research | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |
| Academic Writing | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |
| Presenting | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |
| Data Analysis | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |
| Programming | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |
| Cloud Computing | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |
| Machine Learning | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |
| Web Design | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |
| Collaboration | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |
| Academic Supervision | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |
| Course Coordination | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |
| Lecturing / Teaching | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |
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+ PERSONAL SKILLS

| | average | good | skilled |
|------------------------|--|--|--|
| Communication | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |
| Creativity | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |
| Organization | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |
| Social Commitment | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |
| Self-Directed Learning | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |

+ ACHIEVEMENTS

- 

Best Oral Presentation

Of research across all academic fields

Federation Research Conference / 2017
- 

Shaoguan University Research

Flew to China and presented to machine learning research centre at SGU.

Shaoguan University / 2016

ADAM BIGNOLD

RESEARCHER / ACADEMIC



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+ REFERENCES

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Colleague; Associate Professor

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9/6/2018

To whom it may concern,

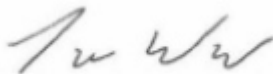
I have known Adam Bignold for four years now, and know him to be a hard working and diligent researcher. Adam is part of our research group, the Federation Learning Agents group (FLAG), at Federation University. Adam contributes well to our research meetings where he presents his weekly achievements from his PhD work. I am always impressed with his achievements in overcoming both the complicated abstract programming problems and the implementation issues involved in his research of using human advice to improve the learning capabilities of computerised agents. Adam is always happy to assist FLAG members during these meetings, to advise and problem solve any issues that the researchers may have. He is a very capable programmer and has a logical mind that allows him to solve problems very promptly.

While undertaking his Honours studies, Adam undertook a six month part time Research Assistant role for a project that I was managing. This project involved the mapping of Multi-regional input/output sectors to Geospatial boundaries. This mapping was initially done manually by researchers, and was a very time consuming task that involved the deciphering of multiple overlaps of many spatial boundaries with many economic sectors. Adam successfully applied a Ripple-Down Rules (RDR) engine to reduce the problem set down to only a minimal number of problematic regions.

For this project, Adam and I travelled to Queensland to trial his new software to researchers from both the University of Queensland and from CSIRO. Adam's trial version of the software was very well accepted at both institutions. Unfortunately, even though the software was a great success, due to funding constraints further development of the software was halted.

I am available to provide further information, if required. I can be contacted on 0490 173 440

Yours sincerely,



Dr Dean Webb

Lecturer, Information Technology, Federation University
Email: d.webb@federation.edu.au

7/6/2018

To whom it concerns,

I am writing this letter of reference on behalf of Adam Bignold. I have known Adam throughout his time as a student at University of Ballarat / Federation University, first as undergraduate student and then as an Honours and PhD candidate. I first met Adam when he enrolled in the Data Mining course I was teaching during the 2nd year of his bachelor's degree. During a lab class Adam expressed interest in carrying out research, and this lead to him undertaking a voluntary summer research project under my direction. Subsequently Adam continued on to undertake Honours and PhD studies – in both cases I acted as co-supervisor with Dr Richard Dazeley.

During his studies Adam has also been employed by Federation University in sessional roles, as both a research assistant and in tutoring and lecturing roles. Both research assistant roles involved Adam adapting a Ripple-Down Rules (RDR) engine which he developed during his Honours year to suit new applications. One project involved an external industry partner who wanted to use RDR methods to filter potential customer contacts obtained via web search. The second project involved a novel application of RDR to spatial partitioning of regional economic data. In both cases Adam successfully delivered software solutions which fulfilled all requirements, although unfortunately issues with the project partners have prevented any research publications arising from this work.

I have not been directly involved in teaching any of the courses in which Adam has been employed. However in my role as Program Coordinator I have regular contact with students from those courses, and it clear that they regard Adam's teaching very favourably. As a result Adam has been entrusted with a higher level of teaching responsibility than would be usual for a PhD student, including running the final-year undergraduate project course this semester.

Adam is a diligent, enthusiastic and hard-working individual. He has excellent interpersonal skills, as reflected in both his teaching and in the contributions he makes to our weekly research group meetings, where has provided insightful advice to more junior research students. He is a very strong programmer and has developed a strong understanding of the research process. His current publication record is not an adequate reflection of his ability as a researcher – he has produced several solid research papers from his PhD thesis which I am confident will be accepted for publication in good venues over the next year.

Regards,



Peter Vamplew

Associate Professor, Information Technology, Federation University

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