Dr Eric Charles McCreath -- CV 2011

Lecturer
Research School of Computer Science
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The Australian National University
Canberra ACT 0200 Australia

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F: +61 2 6125 0010
M: 043 185 8320
R: N227

Year of Birth : 1970

ACADEMIC QUALIFICATIONS:

<table>
<thead>
<tr>
<th>Award</th>
<th>Year</th>
<th>Discipline /Field</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.E. (Hon 1)</td>
<td>1993</td>
<td>Computer Engineering</td>
<td>University of New South Wales</td>
</tr>
<tr>
<td>Ph.D.</td>
<td>1999</td>
<td>Computer Engineering/ Artificial Intelligence</td>
<td>University of New South Wales</td>
</tr>
</tbody>
</table>

COMPETITIVE RESEARCH GRANTS:

<table>
<thead>
<tr>
<th>Year</th>
<th>Grant</th>
<th>Institution</th>
<th>Amount</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>SESQUI(Ne w Staff)</td>
<td>University of Sydney</td>
<td>$20,000.00</td>
<td>Automatic induction of rules for e-mail</td>
</tr>
<tr>
<td>2004</td>
<td>FRGS</td>
<td>FEIT- ANU</td>
<td>$5,000.00</td>
<td>Development of tools for automatic generation of device drivers for Linux</td>
</tr>
<tr>
<td>2008</td>
<td>FRGS</td>
<td>CECS - ANU</td>
<td>$3,000.00</td>
<td>An Intelligent Email Sorter Extension for Thunderbird</td>
</tr>
</tbody>
</table>

PUBLICATIONS:  (Six best are given a *)

2011

• [Eric McCreath (2011) "An Introduction to Programming and Software Development using Java", lulu.com](http://lulu.com)
2010

- Michael Curtotti and Eric McCreath (2010) "Corpus Based Classification of Text in Australian Contracts", Australasian Language Technology Workshop (ALTA), Melbourne (bib)

2008


2006

- Eric McCreath, Judy Kay, and Elisabeth Crawford, "IEMS - an approach that combines hand crafted rules with learnt instance based rules" In the Australian Journal of Intelligent Information Processing Systems, Volume 9, Number 1, pages 40-53 2006

2005


2004

- Robert Bridle and Eric McCreath, Improving the Learning Rate by Inducing a Transition Model In proceeding of the Third International Joint Conference on Autonomous Agents and Multiagent Systems(AAMAS2004), Columbia University New York City, July 2004

2003

2002

- Elisabeth Crawford, Judy Kay and Eric McCreath, "IEMS - The Intelligent Email Sorter" Proceedings of the Nineteenth International Conference on Machine Learning, 2002, Sydney, Australia. (Authors list alphabetically - I was the main contributor to this paper.)

2001

- Elisabeth Crawford, Judy Kay and Eric McCreath, "Automatic Induction of Rules for e-mail Classification" In Proceedings of the Sixth Australiaaian Document Computing Symposium, Coffs Harbour, Australia, December 7, 2001 ADCS01 (Authors list alphabetically - I was the main contributor to this paper.)

1995-2000

- Eric McCreath and Mark Reid, "A Noise resistant Model Inference System" The Second International Conference on Discovery Science Waseda University International Conference Center, Tokyo, Japan December 6-8, 1999, Lecture Notes in Computer Science Series Springer-Verlag vol 1721 DS99
- * Eric McCreath and Arun Sharma,"ILP with Noise and fixed Example Size : a Bayesian Approach"In Fifteenth International Joint Conference on Artificial Intelligence(IJCAI97), volume 2, pages 1310--1315, 1997
- Eric McCreath and Arun Sharma, "Extraction of Meta-Knowledge to Restrict the Hypothesis Space for ILP Systems" Eighth Australian Joint Conference on Artificial Intelligence pp 75--82, Xin Yao, 1995

INVITED PRESENTATIONS (FROM 2006):

- Eric McCreath, ”The Intelligent E-Mail Sorter”, Basser Seminar Series, Sydney University Australia,10 May, 2006
- Eric McCreath, ” Using the Cell Broadband Engine and NVIDIA 8800 GPU for Computational Science Applications: A Particle Dynamics Comparison” Department of Computer Science Seminar Series, ANU, 25 September, 2008

BRIEF SUMMARY OF EMPLOYMENT:

<table>
<thead>
<tr>
<th>Years</th>
<th>Position</th>
<th>Institution</th>
<th>Duties</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001-present</td>
<td>Lecturer(Level B)</td>
<td>Department of Computer General teaching and research duties.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>The Australian National University</td>
<td></td>
</tr>
<tr>
<td>Years</td>
<td>Position</td>
<td>Institution</td>
<td>Duties</td>
</tr>
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</tr>
<tr>
<td>1999-2001</td>
<td>Lecturer (Level B)</td>
<td>Basser Department of Computer Science, The University of Sydney</td>
<td>General teaching and research duties.</td>
</tr>
<tr>
<td>1999</td>
<td>Research Assistant</td>
<td>University of New South Wales</td>
<td>I worked for Assoc/Prof Arun Sharma on his ARC grant. In collaboration with Mark Reid we developed a new ILP system NRMIS which is an extension of Shapiro's MIS. This research addresses the problem of learning intentional descriptions from incomplete data.</td>
</tr>
<tr>
<td>1998</td>
<td>Research Assistant</td>
<td>University of New South Wales</td>
<td>Employed part time by Prof Ross Quinlan on his ARC grant. As part of this project I investigated impact of noisy data on boosting and the incorporation of boosting in Inductive Logic Programming.</td>
</tr>
<tr>
<td>1997</td>
<td>Consultant</td>
<td>BHP Pty Ltd</td>
<td>Built a first-order machine learning system to detect faults from geological data.</td>
</tr>
<tr>
<td>1992</td>
<td>Co-Op Scholar</td>
<td>GEC Marconi</td>
<td>As a Co-Op scholar I was involved with several projects, including working full-time for six months on a project for visualization of sonar data and a project involving a backup system for a PABX.</td>
</tr>
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</table>

**PROFESSIONAL ACTIVITIES:**

- ACM Programming contest.
  - Sydney Site Director 2000
  - Canberra Site Director 2001-2008
- ANU Representative - BSSS Computing Studies Panel

**TEACHING:**

During my time at The University of New South Wales I have had extensive tutoring experience. This involved a range of subjects including: Computing(1st year), Concurrent Computing, Operating Systems, Computer Organization and Design, Integrated Digital Systems, and Artificial Intelligence. Also during this time I gave 3 weeks of lectures for a fourth year Machine Learning subject. I have listed below the courses I have lectured along with the years in which I lectured them. Note that, I have not including minor project based subjects or subjects in which I have contributed 10% or less.

Operating System (USYD) - 2000, 2001
First year programming (USYD) – 2000
Machine Learning (USYD) - 2001
Perspectives on Computing (ANU) – 2002-2003
Artificial Intelligence (ANU) - 2005
Introduction to Software Systems (ANU) – 2005-2010
Honours Convenor (ANU) – 2007
BIT Convenor (ANU) - 2009-
In 2011 I was awarded the Dean's Teaching award (which included a $2000 prize).

TRAINING & PROFESSIONAL DEVELOPMENT (FROM 2002)

- 2002 - CEDAM - Time Management - 2 half day course
- 8/5/2003 - CEDAM : Supervising Research Students - half day course
- 26/11/2003 - Introductory grants writing skills – half day course
- semester 1 2004 - Teaching and learning in higher education - ran over 12 weeks
- 11/6/2004 - Workplace Discrimination and Harassment - Legal Compliance - 3 hour online course
- 29/10/2004 - Changes in the supervision of PhD students at the ANU – 1 day course
- 13/2/2008 - CEDAM - PhD Supervision with the college - attend the afternoon session.
- 10/2009 – CEDAM – PhD Supervision workshop – Full day.