

Glen van den Bergen

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WORK HISTORY

UNIVERSITY OF QUEENSLAND

Brisbane, Qld
Apr 2016 – Oct 2019

PHD CANDIDATE

Thesis in preparation.

Developed scientific software tools made available via web services at atb.uq.edu.au/asp and atb.uq.edu.au/peg.

UNIVERSITY OF QUEENSLAND

Brisbane, Qld
Aug 2015 – Apr 2016

RESEARCH ASSISTANT

Continued research on predicting structure of antimicrobial peptides using evolutionary algorithms to optimise amphipathicity. Updated documentation and web administration features of the Automated Topology Builder (atb.uq.edu.au).

SPEEDWELL

Brisbane, Qld
Jun 2012 – July 2015

SENIOR TEST ANALYST

Defined, executed, and reported testing outcomes for web and smartphone applications via test plans, test cases, bugs reports, and fix verifications. Coordinated a team of offshore testers based in Manila, Philippines. Conducted team and professional development exercises in Manila.

GLOBAL X

Brisbane, Qld
Aug 2011 – Jun 2012

SENIOR TEST ANALYST

Established software-testing and release practices. Performed requirements analysis of software systems and definition of acceptance criteria. Performed paired testing with software engineers during development for rapid turnaround on defect identification and resolution.

KROME STUDIOS

Brisbane, Qld
Feb 2008 – May 2010

TECHNICAL WRITER

Documented features of in-house development tools for interactive entertainment including usage manuals and video tutorials.

KROME STUDIOS

Brisbane, Qld
Nov 2006 – Feb 2008

TEST ANALYST

Managed a team of testers on projects across multiple platforms to investigate interactive software, identify defects, record and manage defects, and report software quality to project managers.

EDUCATION

UNIVERSITY OF QUEENSLAND

Brisbane, Qld
Apr 2016 – Oct 2019

PHD CANDIDATE

Thesis in preparation.

UNIVERSITY OF QUEENSLAND

Brisbane, Qld
Jan 2012 – Nov 2015

MASTER OF BIOINFORMATICS

Studied theory and practice of biological sciences, including utilisation of software to analyse and organise biological data. Awarded the Dean's Commendation for Academic Excellence with a cumulative GPA of 6.75.

Achievements include:

- Concepts in Bioinformatics: High Distinction (7/7)
- Advanced Bioinformatics: High Distinction (7/7)
- Virology: Distinction (6/7)
- Computational Statistics: Distinction (6/7)
- Advanced Genome Informatics: Distinction (6/7)
- Research Proposal: High Distinction (7/7)
- Research Project: High Distinction (7/7)
- Major Research Project & Seminars: High Distinction (7/7)
- Data Mining: High Distinction (7/7)

QUEENSLAND UNIVERSITY OF TECHNOLOGY

Brisbane, Qld
Jan 2002 – Nov 2006

BACHELOR OF INFORMATION TECHNOLOGY / BACHELOR OF COMMUNICATION DESIGN

Studied fundamental and advanced concepts in programming and software engineering using Java and C/C++. Learned skills in illustration, animation, and interactivity using multimedia software packages such as 3D modelling software and the Adobe suite of tools including Photoshop and Illustrator.

Achievements include:

- Software Engineering Principles: High Distinction (7/7)
- Media Technology 2: Distinction (6/7)

MORETON INSTITUTE OF TAFE

Brisbane, Qld
Jan 2001 – Nov 2001

DIPLOMA OF MULTIMEDIA

Studied skills in illustration, animation, and programming to develop interactive software using the Adobe and Macromedia software suites.

RESEARCH PROJECTS

UNIVERSITY OF QUEENSLAND

Brisbane, Qld
2019

UNDERSTANDING THE RELATIONSHIP BETWEEN STRUCTURE AND ACTIVITY OF MEMBRANE DISRUPTING ANTIMICROBIAL PEPTIDES

Supervisor: Alan E. Mark (School of Chemistry and Molecular Biosciences, Brisbane)
Manuscript in preparation.

UNIVERSITY OF QUEENSLAND

Brisbane, Qld
2019

MOLECULAR DYNAMICS SIMULATIONS OF ANTIMICROBIAL PEPTIDES CROTALICIDIN AND DERMADISTINCTIN K

Supervisor: Alan E. Mark (School of Chemistry and Molecular Biosciences, Brisbane)
Manuscript in preparation.

UNIVERSITY OF QUEENSLAND

Brisbane, Qld
2019

PREDICTING THE ACTIVE STRUCTURE OF MEMBRANE DISRUPTING ANTIMICROBIAL PEPTIDES

van den Bergen, G., Stroet, M., Caron, B., Poger, D., Mark, A.E.

Biochimica et Biophysica Acta – Biomembranes

Supervisor: Alan E. Mark (School of Chemistry and Molecular Biosciences, Brisbane)
Manuscript under review.

Developed method to predict the active structure of membrane disrupting antimicrobial peptides. The method optimises amphipathicity using an evolutionary algorithm. Available as a web service: atb.uq.edu.au/asp

UNIVERSITY OF QUEENSLAND

Brisbane, Qld
Aug 2013 – Nov 2013

ANALYSIS OF METASTATIC PROTEIN NETWORKS IN CANCER

van den Bergen, G., Inglis, J.C., Ling, J., Thompson, J., Emerson, M., Davis, M.J.

Supervisor: Melissa Davis (Walter & Eliza Hall Inst. of Medical Research, Melbourne)

Completed as part of assessment for Master of Bioinformatics.

Led a team of four undergraduate students identifying disrupted protein interaction networks involved in metastasis. The intersection of identified sub-networks between three types of solid tumour highlighted shared metastatic pathways.

Awarded high distinction.

AWARDS

UNIVERSITY OF QUEENSLAND Brisbane, Qld Nov 2016	CTCMS SYMPOSIUM POSTER PRIZE Awarded for best poster prize at the Centre for Theoretical and Computational Molecular Science (CTCMS) Symposium on Computational Methods and Applications.
UNIVERSITY OF QUEENSLAND Brisbane, Qld Dec 2015	DEAN'S COMMENDATION FOR ACADEMIC EXCELLENCE Awarded for Master of Bioinformatics completed in 2015, with a cumulative GPA of 6.75.
UNIVERSITY OF QUEENSLAND Brisbane, Qld Dec 2014 – Jan 2015	RESEARCH SCHOLARSHIP Awarded for continuing study on antimicrobial peptides for Research Project over summer semester 2014-2015, during Master of Bioinformatics.

TUTORING

UNIVERSITY OF QUEENSLAND Brisbane, Qld Semester 2, 2016	ADVANCED BIOINFORMATICS <i>"Advanced Bioinformatics will equip the student with the interdisciplinary knowledge and skills necessary to meet the data-centred challenges and demands of modern-day biology."</i> Assisted in the running of workshops and practical sessions, and marking assessment.
UNIVERSITY OF QUEENSLAND Brisbane, Qld Semester 1, 2016	INTRODUCTION TO BIOINFORMATICS AND COMPUTATIONAL BIOLOGY <i>"This course aims to provide students from a broad range of backgrounds with an introduction to bioinformatics, an emerging discipline that is transforming how we make discoveries in molecular bioscience."</i> Assisted in the running of workshops and marking assessment.
UNIVERSITY OF QUEENSLAND Brisbane, Qld Semester 1, 2016	GENOMICS AND BIOINFORMATICS <i>"This course will provide a practical introduction to genomics and bioinformatics. Topics include next-generation sequencing, biological databases, sequence alignment, similarity searches, genome browsers, molecular evolution, human disease genetics and proteomics."</i> Assisted in the running of practical sessions.

VOLUNTEERING

ABACBS/COMBINE

Brisbane, Qld
June – Nov 2016

MEMBER OF ORGANISING COMMITTEE FOR COMBINE SYMPOSIUM

Helped organize and run the COMBINE Symposium for students and early career researchers. Duties included various graphic design tasks, various operational tasks on the day, providing assistance to delegates, and chairing the careers panel.

OPEN KNOWLEDGE FOUNDATION

Brisbane, Qld
Oct 2015

HEALTH HACK 2015 (BRISBANE)

Volunteered at the Brisbane chapter of Health Hack 2015 to assist Karmen Condić-Jurkic in recruiting participants to the project for a molecular dynamics repository. Project was awarded 2nd place prize for \$2000 worth of legal services and counselling.

PYCON

Brisbane, Qld
Aug 2015

PYTHON CONFERENCE AU 2015

Volunteered for two days as an organiser at PyCon AU 2015.

ROTARY

Brisbane, Qld
May 2006
May 2005

ROTARY YOUTH LEADERSHIP AWARDS (RYLA)

RYLA is a youth leadership development program to promote personal and professional development including topics on public speaking, goal setting, negotiation skills, motivation, interpersonal skills and more. Attended in 2005 as a participant and in 2006 as a volunteer team leader.

REFEREES

UNIVERSITY OF QUEENSLAND

Brisbane, Qld

PROF. ALAN E. MARK

Principal Investigator of Molecular Dynamics Group, School of Chemistry & Molecular Biosciences.

UNIVERSITY OF QUEENSLAND

Brisbane, Qld

DR. DAVID POGER

Senior Research Fellow in Molecular Dynamics Group, School of Chemistry & Molecular Biosciences.

UNIVERSITY OF QUEENSLAND

Brisbane, Qld

ASSOC. PROF. MIKAEL BODEN

Program director of Master of Bioinformatics, School of Chemistry & Molecular Biosciences.

WALTER & ELIZA HALL INSTITUTE

Melbourne, Vic

DR. MELISSA DAVIS

Joint Head, Division of Bioinformatics, Walter & Eliza Hall Institute of Medical Research.

Contact details of referees available on request.