

TAMLIN LOVE

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EDUCATION

University of the Witwatersrand, Johannesburg, South Africa Currently studying for Honours in Computer Science School of Computer Science and Applied Mathematics	<i>Present</i>
University of the Witwatersrand, Johannesburg, South Africa Bachelor of Science in Computer Science and Applied Mathematics School of Computer Science and Applied Mathematics	<i>2016 - 2018</i>
St John's College, Johannesburg, South Africa Matric Qualification	<i>2011 - 2015</i>

PROJECTS

Building Bayesian Influence Ontologies

This project, which is currently in progress under supervision by Dr. Ritesh Ajoodha, aims to develop a method by which the influence between interacting models can be modeled as a Bayesian network and learned from data using score-based structure learning techniques. Example applications include plagiarism detection and detecting influence between musical pieces.

Wits Moodle Marker Extension

https://github.com/theWronskians/moodle_dev

This project extended the existing moodle plugin used by Wits to automatically mark code submissions. It was extended to incorporate more feedback, integrate with multiple marking servers and better handle the marking of Matlab code.

TECHNICAL SKILLS

Programming - Python, C, C++, Java, Matlab, Javascript, PHP

Computer Science - Machine Learning (specialising in probabilistic graphical models), Image Processing, High Performance Computing, Software Design

WORK EXPERIENCE

University of the Witwatersrand <i>Tutor</i>	2018-2019
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- Tutoring 3rd year machine learning, 3rd year computer graphics, and 1st and 2nd year computational and applied mathematics

University of the Witwatersrand <i>Assistant</i>	January 2018
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- Restructuring of data management systems for assets of the School of Physics

MARKS

University of the Witwatersrand

2018

- Computational and Applied Mathematics III - 86%
- Formal Languages and Automata III - 90%
- Advanced Analysis of Algorithms III - 84%
- Computer Graphics and Visualisation III - 90%
- Machine Learning III - 90%
- Software Design III - 70%

2017

- Computational and Applied Mathematics II - 81%
- Operating Systems II - 82%
- Database Fundamentals II - 93%
- Mobile Computing II - 98%
- Computer Networks II - 84%
- Analysis of Algorithms II - 96%
- Abstract Mathematics II - 88%
- Linear Algebra II - 75%
- Multivariable Calculus II - 63%
- Introductory Analysis II - 61%
- Introduction to Mathematical Statistics II - 85%

2016

- Computational and Applied Mathematics I - 80%
- Basic Computer Organisation I - 90%
- Discrete Computational Structures I - 89%
- Introduction to Data Structures and Algorithms I - 94%
- Introduction to Algorithms and Programming I - 95%
- Algebra I - 70%
- Calculus I - 73%
- Physics I - 75%

St John's College

2015

- Mathematics - 92%
- Physical Science - 83%
- English - 89%

- Latin - 89%
- Italian - 92%
- Music - 87%
- Drama - 97% (top 1% of IEB candidates)
- Life Orientation - 90%
- Afrikaans - 79%
- Advanced Program Mathematics - 76%

ACADEMIC ACHIEVEMENTS

University of the Witwatersrand

2018 - Recipient of the Liberty Life Gold Medal for outstanding performance in Computer Science III

2018 - Awarded the prize for top student in Computational and Applied Mathematics III

2018 - Recipient of the Herbert Le May Prize for the best third year science student majoring in Applied Mathematics

2018 - Certificate of First Class for Formal Languages and Automata III, Advanced Analysis of Algorithms III, Computer Graphics and Visualization III and Machine Learning III

2018 - Certificate of Merit for Computational and Applied Mathematics III

2017 - Recipient of the Psybergate Computer Science II prize

2017 - Certificate of First Class for Operating Systems II, Abstract Mathematics II and Linear Algebra II

2017 - Certificate of Merit for Computational and Applied Mathematics II, Database Fundamentals II, Mobile Computing II, Computer Networks II, Analysis of Algorithms II and Introduction to Mathematical Statistics II

2016-2018 - Achieved a spot on the Dean's List in the 1st, 2nd and 3rd years of study

St John's College

2015 - Received 8 distinctions in the 2015 NSC IEB Matric Examinations with an aggregate of 90%

2015 - Awarded 5 colours: Music, Academic, Drama, Public Speaking and Cultural

2015 - Awarded 2 honours: Academic, Music

2015 - Was made a house prefect

2015 - Won the Matric Latin Subject Prize

2015 - Won the Matric English Subject Prize

2015 - Was ranked in the top 100 students in Gauteng in the Maths Olympiad

2014 - Was part of a team which ranked in the top 16 international projects in the CERN Beamline challenge

2014 - Was awarded Gold in the 2014 De Beers English Olympiad

2014 - Was the Recipient of the Walter Webber Essay Prize

2014 - Was awarded a Gold Medal as the best English candidate for the University of New South Wales International 2014 benchmark test in Southern Africa

2013 - Was published in the English Alive Anthology

EXTRA-CIRRICULAR

Applied Mathematics

2018 - Placed 2nd in the SAMMC competition for mathematical modelling

Computer Science

2019 - Participated in the Google Hashcode competition

2018 - Participated in the Deloitte Hackathon

Music

2019 - Currently plays 1st Trombone in the Johannesburg Symphony Orchestra and 2nd Trombone in the Phoenix Big Band

2015 - Passed ABRSM Grade 8 Trombone with Distinction

2015 - Passed ABRSM Grade 6 Theory with Merit

2015 - Played 1st trombone for the St Johns Orchestra, Big Band, Brass Band, Wind Band and Octet

2015 - Was elected Head of Brass Band

2015 - Won 1st prize in the brass category in the Roedean Lovemore-Yamaha Music Competition

2015 - Was selected as first trombone for the National B Band at the Grahamstown Jazz Festival

Creative Writing and Public Speaking

2015 - Won the Muhammed-Ismail Bulbulia Prize for Excellence in Creative Writing

2015 - Won the ODowd Public Speaking competition

2015 - Was part of a team of three which won the 2015 Inter School POP Poetry Competition