

Curriculum Vitae

Tamlin Love

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Education

MSc Computer Science by Dissertation (with distinction) 2020 - 2022

School of Computer Science and Applied Mathematics
University of the Witwatersrand, Johannesburg, South Africa

BSc Honours in Computer Science (with distinction) 2019

School of Computer Science and Applied Mathematics
University of the Witwatersrand, Johannesburg, South Africa

BSc Computer Science and Applied Mathematics (with distinction) 2016 - 2018

School of Computer Science and Applied Mathematics
University of the Witwatersrand, Johannesburg, South Africa

NSC IEB Matric Qualification 2011 - 2015

St John's College, Johannesburg, South Africa

Projects and Published Works

Should I Trust You? Incorporating Unreliable Expert Advice in Human-Agent Interaction

Appeared in 2021 Workshop on Human-aligned Reinforcement Learning for Autonomous Agents and Robots

In this research, supervised by Dr. Ritesh Ajoodha and Prof. Benjamin Rosman, we present a reinforcement learning algorithm for solving single-stage decision problems incorporating interactive policy advice from multiple experts, whose advice may or may not be reliable.

Link: https://harlworkshop.github.io/submission_3.pdf

Building Undirected Influence Ontologies Using Pairwise Similarity Functions

Published in 2020 International SAUPEC/RobMech/PRASA Conference

This research, supervised by Dr. Ritesh Ajoodha, seeks to develop a set of algorithms to recover the undirected skeleton of an influence ontology for knowledge discovery purposes.

Link: <https://ieeexplore.ieee.org/abstract/document/9040984>

Wrobot (Honours)

In this project, a system was developed to allow two Turtlebots to compete for possession of a ball. The project employed several techniques, such as colour detection, PRM, Dijkstra's Algorithm and PID control.

Link: https://github.com/TheWronskians/capture_the_flag

Wits Moodle Marker Extension (3rd Year)

This project extended the existing Wits Moodle marker plugin to incorporate real-time feedback, multiple marking servers and more support for Matlab.

Link: <https://github.com/TheWronskians/WitsMoodleMarkerExtensions>

Work Experience

Associate Lecturer

2022

Associate lecturer at the University of the Witwatersrand, teaching 3rd year Software Design.

Software Developer

2021 - present

Full stack mobile app development

Clients: [Brandcartel](#)

Programming Assistant

2019

Assisting with programming tasks for the Roedean School IT department

Tutor

2018 - 2021

Employed by the University of the Witwatersrand to tutor computer science across 1st to 3rd years in fulfilment of the Post-Graduate Merit Award

Appointed head tutor for Software Design 3rd Year and Reinforcement Learning Honours in 2020

Assistant

January 2018

Restructuring of data management systems for assets of the School of Physics at the University of the Witwatersrand

Musician (ad hoc)

2016 - present

Played trombone with the St John's Choir, the WA Mozart Choir, the Rand Symphony Orchestra, the Johannesburg Symphony Orchestra, Phoenix Big Band, Off the Record and the UP Youth Choir.

Skills

Programming Languages

- | | | | |
|----------|--------|--------------|-------|
| • Python | • Java | • C++ | • PHP |
| • Matlab | • C | • JavaScript | • SQL |
| • Dart | | | |

Experience working with Django and Flutter.

Computer Science

- Machine Learning
- Reinforcement Learning
- Computer Vision and Image Processing
- High Performance Computing (Open MP, CUDA and MPI)
- Algorithmic Analysis

Languages

- English (home language)
- Italian (fluent)
- Latin (high school level)
- Afrikaans (high school level)

Community Service

Musician

2017 - 2018

Played trombone with the Guild Orchestra for the Golden Acres old age home

Web Designer

2015

Designed and created a website for the Yeoville Community School

Assistant

2014 - 2015

Worked in the Orange Grove Hospice book shop

Teacher and Assistant

2014 - 2015

Worked with the Link Literacy Project at the Yeoville Community School, teaching English to Grade 2, 6 and 7 pupils & assisting with maintenance around the school

Completed a total of 146 hours of community service during high school (2011 - 2015).

Academic Achievements

University of the Witwatersrand

2021

- Awarded the Post-Graduate Merit Award

2020

- Awarded the Post-Graduate Merit Award

2019

- Awarded the Post-Graduate Merit Award
- Dean's List

2018

- Liberty Life Gold Medal for outstanding performance in Computer Science
- Prize for Top Student in Computational & Applied Mathematics
- Herbert Le May Prize for the best 3rd year science student majoring in Applied Mathematics
- Dean's List
- Certificate of First Class for Formal Languages & Automata, Advanced Analysis of Algorithms, Computer Graphics & Visualization and Machine Learning
- Certificate of Merit for Computational and Applied Mathematics

2017

- Psybergate Computer Science prize
- Dean's List
- Certificate of First Class for Operating Systems, Abstract Mathematics and Linear Algebra
- Certificate of Merit for Computational & Applied Mathematics, Database Fundamentals, Mobile Computing, Computer Networks, Analysis of Algorithms and Introduction to Mathematical Statistics

2016

- Member of the Golden Key International Honour Society
- Dean's List

St John's College

2015

- 8 distinctions in the 2015 NSC IEB Matric Examinations with an aggregate of 90%
- 5 Colours: Music, Academic, Drama, Public Speaking & Cultural
- 2 Honours: Academic, Music
- House Prefect
- Elected Head of Brass Band
- Matric Latin & English Subject Prizes
- Ranked in the top 100 Gauteng students in the Maths Olympiad

2014

- Part of a team which ranked in the top 16 international projects in the CERN Beamline challenge
- Awarded Gold for the De Beers English Olympiad
- Walter Webber Essay Prize
- Gold Medal for the best English candidate for the University of New South Wales' International 2014 benchmark test in Southern Africa
- President's Award (Bronze)

2013

- Published in the English Alive Anthology

2011 – 2015

- Awarded an Academic Merit Certificate (over 80% aggregate) every term from Grade 8 to Matric

Extra-Curricular Achievements

University of the Witwatersrand

2019

- **Astronomy**
 - Elected Secretary of the Wits Astronomy Club
- **Computer Science**
 - Google Hashcode participant
- **Music**
 - 1st Trombone in the Johannesburg Symphony Orchestra & 2nd Trombone in the Phoenix Big Band

2018

- **Applied Mathematics**
 - Placed 2nd in the SAMMC competition for mathematical modelling
- **Computer Science**
 - Participated in the Deloitte Hackathon

St John's College

2015

- **Music**
 - Passed ABRSM Grade 8 Trombone with Distinction; Passed ABRSM Grade 6 Theory with Merit
 - Played 1st trombone for the St John's Orchestra, Big Band, Brass Band, Wind Band and Jazz Octet Won 1st prize in the brass category in the Roedean Lovemore-Yamaha Music Competition
 - Was selected as first trombone for the National B Band at the Grahamstown Jazz Festival Organized, conducted and composed music for Alston House in the Inter-House Music festival
- **Public Speaking and Creative Writing**
 - Won the Muhammed-Ismael Bulbulia Prize for Excellence in Creative Writing
 - Won the O'Dowd Public Speaking competition
 - Part of a team of three which won the 2015 Inter School POP Poetry Competition
 - Member of the Scribbler committee responsible for editing the school's creative writing magazine.
- **Drama**
 - Awarded the Andrewes Drama Award for the most sustained and outstanding commitment to drama from Grade 8 to Matric
 - Produced the Alston house play.

2014

- **Drama**
 - Organised the Alston Inter-House Poetry Slam team
- **Sport**
 - Provincial Colours in Gauteng for Mind Sports (DBA)
 - Winner of Gauteng Schools DBA tournament

2013

- **Sport**
 - Captain of 5th Hockey

2011 – 2015

- **Drama**
 - Acted in numerous school plays, Inter-House plays and presented many skits for the Grobs festival.
- **Sport**
 - Participated in school Hockey, Basketball and Cricket