

Devon Jarvis - CURRICULUM VITAE

Personal Information

CONTACT DETAILS: **Phone: 071 139 2925**
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NATIONALITY: **South African**

Education

UNIVERSITY ATTENDED: **University of the Witwatersrand**

QUALIFICATIONS: **Master of Science (Dissertation) in the field of Computer Science (graduated with Distinction) (2020-2021)**

- Supervisors: Dr. Richard Klein,
 Prof. Benjamin Rosman,
 Prof. Andrew Saxe
- Thesis: Generalizing Regularization of Neural Networks to Correlated Parameter Spaces.

Bachelor of Science with Honours in the field of Computer Science (graduated with Distinction) (2019)

Bachelor of Science in Computer Science and Economic Science (graduated with Distinction) (2016-2018)

AWARDS: **The Samuel Goodman Memorial Medal (2019)** - This gold medal is awarded annually to the most distinguished Honours graduate in the Faculty of Science (*Top Honours student in Science Faculty*).

PSYBERGATE Computer Science III Prize (2018) – Awarded for excellence in the final year of study in Computer Science (*Summa Cum Laude in Computer Science III*).

PSYBERGATE Computer Science Alumni Prize for the Best Student Tutor (2020) - awarded annually to the Honours or postgraduate student who makes the biggest contribution to supporting teaching in the School through their tutoring of, or demonstrating to, undergraduate students.

Dean's List (2016, 2017, 2018, 2019)

Postgraduate Merit Award (2019, 2020)

Additional Achievements:

- **Research Incentive Prize Sponsored by Huawei at Computer Science and Applied Mathematics Honours Innovation Day 2017**
- **Undergraduate University Council Merit Scholarship (2017, 2018)**
- **3rd at the Centre for High Performance Computing Cluster Competition (2017)**
- **Golden Key**

Work Experience

UNIVERSITY OF THE
WITWATERSRAND

Sessional Lecturer Computer Science IV, VII: Mathematical Foundations of Data Science (2022)

Head Tutor Computer Science IV: Computer Vision (2020), Mathematical Foundations of Data Science, Natural Language Processing (2021)

Head Tutor Computer Science III: Machine Learning, Computer Graphics and Visualization (2020)

Academic Tutor for Computer Science II and Computer Science III (2019)

Instructed 1st and 2nd year Computer Science and Applied Mathematics students in a semester workshop - "Introduction to Linux" (2018)

Volunteer Work Experience

1DAY SOONER

1Day Africa Research Lead (January 2021 - Present)

1Day Sooner Volunteer Organizer (August 2020 - Present)

RELEVANT LINKS

<https://1dayafrica.org/about-1day-africa>
<https://www.1daysooner.org/team>

Academic Writing

- **The role of learning regime, architecture and dataset structure on systematic generalization in simple neural networks.**
Co-authors: Dr. Richard Klein, Prof. Benjamin Rosman, Prof. Andrew Saxe
In: Submitted to The Tenth International Conference on Learning Representations, 2022.
URL <https://openreview.net/forum?id=3r034NfDKnL>.
- **Generalizing Regularization of Neural Networks to Correlated Parameter Spaces**
(Masters Dissertation): <https://jarvisdevon.github.io/jarvisdissertation.pdf>
Supervisors: Dr. Richard Klein, Prof. Benjamin Rosman, Prof. Andrew Saxe

Opinion Editorials

- **African countries need to be involved in Covid-19 human challenge vaccine trials:**
<https://www.dailymaverick.co.za/opinionista/2020-12-16-african-countries-need-to-be-involved-in-covid-19-human-challenge-vaccine-trials/>

Summer Schools

- **Google Deep Learning Indaba, 2018**
- **Google Deep Learning Indaba, 2019**
- **Oxford Machine Learning Summer School, 2020**
- **International Symposium on Artificial Intelligence and Brain Science, 2020**

Relevant Skills

PROGRAMMING
LANGUAGES

C++, Java, C, Python (including NumPy, SciPy, Pandas), Javascript

SOFTWARE
LIBRARIES

**Machine Learning with Jax, Tensorflow, PyTorch, Autograd;
Robot Operating System (ROS)**