

## EDUCATION

---

### University of Cambridge

Master of Philosophy in Advanced Computer Science.

Cambridge, UK

2020–Present

- Modules:
  - Advanced Topics in Mobile Systems and Mobile Data Machine Learning
  - Principles of Machine Learning Systems
  - Machine Learning and the Physical World
  - Computer Vision
  - Mobile Robot Systems

### University of the Witwatersrand

Bachelor of Science in Engineering (Electrical) Information, **with Distinction**.

Johannesburg, RSA

2016–2019

- Specialised in topics of Software Engineering, Data Intensive Computing, and Control Systems.

### SAHETI School

Average: 82%, Distinctions: 6

Johannesburg, RSA

2004–2015

## EXPERIENCE

---

### Business Science Corporation Global

Junior Developer.

Johannesburg, RSA

Jan 2020 – Sep 2020

- .NET Core (C#) and Angular (TypeScript) full-stack developer for the FinTech domain, working in teams practicing Agile development.
- Developed a tokenised-investment platform, and added a new token type which calculates interest earned in real-time on Ethereum blockchain.
- Developed a debt-security instrument investment platform, and was responsible for the instrument creation and issuing engine.

### ABSA Group Limited

Vacation Work Student.

Johannesburg, RSA

Nov 2018 – Jan 2019

- Worked in the Cybersecurity department on phishing and malware system improvements.
- Designed and implemented an image recognition algorithm to recognise the company website.
- Set up a prototype network intrusion detection system.
- Increased the functionality of a Telegram chat bot, which can deliver live updates and statistics from a SQL server.

### TATA Consultancy Services (South Africa)(Proprietary)

Vacation Work Student.

Johannesburg, RSA

Dec 2017 – Jan 2018

- Designed and implemented a mobile application using Xamarin.
- The application integrated Google Web Services to provide scheduling and calendar services.

## PUBLICATIONS

---

- E. de Mello Koch, A. de Mello Koch, **N. Kastanos** and L. Cheng, “Short-sighted deep learning”, *Phys. Rev. E* 102, 013307, 10 July 2020
- A. de Mello Koch, **N. Kastanos** and V. Aharonson, “Monitoring Routine Changes From Daily Smartphone Usage”, *2020 IEEE International Conference on Human-Machine Systems (ICHMS)*, Rome, Italy, 2020

## SKILLS

---

- **Programming:** Python, C/C++, C#, Matlab, Java
- **Frameworks:** TensorFlow, Keras, .NET Core, Angular
- **Tools/Techs:** SQL, Linux, Git, Android, LaTeX
- **Web:** HTML/CSS, TypeScript/JavaScript

## LANGUAGES

---

- **English:** Native, IELTS: 8.5
- **GRE:** V: 159/170, Q: 160/170, AW: 4.0/6.0
- **Greek:** Basic
- **Afrikaans:** Basic

## AWARDS

---

- |  |      |
|--|------|
| ○ <i>4th Place</i> , Center for High Performance Computing's Student Cluster Competition | 2018 |
| ○ <i>2nd Place</i> , Entelect Software Development II Competition                        | 2018 |
| ○ <i>Dean's List</i> , University of the Witwatersrand                                   | 2017 |
| ○ <i>Dean's List</i> , University of the Witwatersrand                                   | 2016 |
| ○ <i>Golden Key International Honour Society</i> , University of the Witwatersrand       | 2016 |