

# Jack Montgomery

Cape Town, South Africa

✉ mail@jackbmontgomery.com    ☎ 063 141 5799

I am currently working as a data scientist at a machine learning and optimization consulting company. My academic interests include machine learning, chaos theory, and computational neuroscience. I enjoy applying my background in mathematics, statistics, and computer science to solve real-world problems using simple and efficient methods.

## EDUCATION

---

- |  |   |
|--|---|
| <b>University of Oxford</b><br><i>MSc in Mathematical Sciences</i>   | <b>Oxford, England</b><br><i>October 2025</i>             |
| <b>University of Cape Town</b><br><i>BSc Honours in Mathematics</i>  | <b>Cape Town, South Africa</b><br><i>December 2024</i>    |
| ○ Awarded in the first class   |   |
| <b>University of Cape Town</b><br><i>BSc Specialising in Mathematics, Mathematical Statistics and Computer Science</i> | <b>Cape Town, South Africa</b><br><i>December 2022</i>    |
| ○ Awarded with distinction in Computer Science and Mathematics and degree with distinction                             |   |
| <b>St John's College</b><br><i>National Senior Certificate</i>   | <b>Johannesburg, South Africa</b><br><i>December 2019</i> |
| ○ Top 1% nationally for Mathematics and Drama  |   |

## EXPERIENCE

---

- |  |  |
|--|--|
| <b>Data Scientist</b><br><i>Isazi Consulting</i> | <b>Johannesburg, South Africa</b><br><i>January 2025</i>               |
| ○ Machine Learning                               |  |
| ○ Statistical Modelling                          |  |
| ○ Optical character recognition models           |  |
| <b>Software Engineer</b><br><i>Yellow Africa</i> | <b>Cape Town, South Africa</b><br><i>November 2022 - November 2024</i> |
| ○ DevOps and Cloud Computing                     |  |
| ○ Infrastructure as code                         |  |
| ○ Commercial Problem Solving                     |  |

## AWARDS AND ACHIEVEMENTS

---

- Dean's Merit List 2022
- Member of the Golden Key Society
- St John's College Head of School 2019

## KEY SKILLS

---

- **Cloud Computing** - Experience with AWS, particularly in serverless architectures.
- **DevOps** - Experience in creating and deploying Terraform modules.
- **High-Performance Computing** - Proficiency with JAX for accelerated computations.
- **Relational Databases** - Experience with MySQL and PostgreSQL.
- **Software Development** - Strong programming background in Python, Java, and R.
- **Machine Learning** - Experience with statistical modeling, deep learning, and reinforcement learning.
- **Bayesian Models** - Experience with Active Inference and Predictive Coding.
- **Public Speaking** - Comfortable presenting to both technical and non-technical audiences.