

# PATRICK GARY MOEHRKE

Actuarial Consultant | Data Scientist | Cloud Practitioner | TASSA

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South African

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## WORK EXPERIENCE

Actuarial Consultant

Dupro Advisory Ltd

December 2020 – Present

Remote

- Part of my responsibilities include: maintaining the project I began working on in July 2020, writing case studies using actuarial data that implements machine learning techniques, assisting with reports & studies, and presenting aspects of webinars.
- I am developing my knowledge on IFRS 17 and similar governance frameworks, along with technical skills such as PostgreSQL, Julia, Python, and machine learning & data science principles.

EMS Module Mentor

Faculty of Economic and Management Science, Stellenbosch University

February 2020 – July 2020

Stellenbosch, Western Cape

- I tutored first year Financial Mathematics to actuarial and mathematical statistics students.

## EDUCATION

BCom Honours (Actuarial Science)

Stellenbosch University

January 2020 – December 2020

Stellenbosch, Western Cape

- Main Subjects: Actuarial Risk Management, Financial Engineering & Loss Reserving, Communications, Extreme Value Theory, Research Project, Introduction to R
- Research Project: *Evaluating the use of genetics to calculate risk premiums with applications to Huntington's Disease* – **Grade: Distinction**

BCom (Actuarial Science)

Stellenbosch University

January 2017 – December 2019

Stellenbosch, Western Cape

- Main Subjects: Actuarial Science and Mathematical Statistics
- Dean's Merit List: 6 subjects – **Top 10% in subject**

IEB National Senior Certificate

Beaulieu College

January 2012 – December 2016

Midrand, Gauteng

- Distinctions: English Home Language, Mathematics, Accounting, Geography, Physical Science
- Additional Subjects: Advanced Programme English, Advanced Programme Mathematics

## AWARDS

- Golden Key International Honours Society – Invited 2018 & 2019 and accepted 2019
- Maties Gymnastics Most Valued Member – 2019
- Stellenbosch University Merit Bursary – 2018

## INTERPERSONAL SKILLS

Organisational

Responsible

Adaptable

Communication

Dependable

Leadership

Professionalism

Inquisitive

Enthusiastic

## TECHNICAL SKILLS

Microsoft Office 365

Microsoft Excel

R Programming Language

TEX



## STRENGTHS

Actuarial & Statistical

Financial Mathematics

Research

Data Governance

Survival Models

Programming

Visualisation

Reporting

Algorithms

Markdown

External Libraries & Packages

Software

RStudio

Overleaf

Anaconda

Jupyter

## ASSA EXAM RESULTS

Recommended for Exemption

A111

A112

A113

A211

A213

N111

N211

Passed

A212

## LANGUAGES

English

Afrikaans



## LEADERSHIP EXPERIENCE

- Chairperson: Maties Gymnastics – 2020
- Vice Chairperson: USSA Gymnastics – 2020
- Treasurer: Van Der Stel Gymnastics – 2020

# HOBBIES

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