

RODAS BERHANE OKUBAGABIR

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SUMMARY Analytical and results-driven Applied Mathematics graduate currently pursuing an MSc in Business Analytics at UCD Smurfit Graduate Business School.
Strong background in statistical modelling, optimisation and data analytics, with practical experience in Python, SQL and business intelligence tools. Proven ability to translate complex data into actionable insights to support strategic decision-making. Seeking opportunities in data analytics, business intelligence, or optimisation-focused roles.

NB: Eligible to work in Ireland under "Stamp 1" Visa, without the need for a Work Permit or Sponsorship.

WORK EXPERIENCE **Instructor & Database Manager,**
Eritrean Airforce, Asmara, Eritrea

10/2020 - 02/2023:

- Delivered instruction in Python programming and pre-calculus mathematics
- Designed and maintained structured database systems for operational data
- Analysed datasets to improve reporting accuracy and decision support
- Collaborated across departments during rotational assignments to support data management initiatives

EDUCATION **MSc Business Analytics,**
UCD Michael Smurfit Graduate Business School, Dublin, Ireland

2025-Present

- Expected Result:** 2:1 – Second Class Hons Grade 1.
- Key Modules:** Programming for Analytics, Statistical Methods, Managing Data & AI, Optimisation in Business, Business Decision Support Systems, Decision & Behavioural Analytics.

2015-2020 **Bachelor of Science (BSc). Applied Mathematics,**
Eritrea Institute of Technology, Asmara, Eritrea

- Result:** First Class Honours .

2021-2022 **Diploma in Accounting and Finance in Business and Management .**
Cambridge International College, United Kingdom.

- Results:** GPA 3.5/4

ACADEMIC PROJECTS

UrbanEats Expansion Strategy | UCD Smurfit (2025)

- Analysed four years of demand data (2021–2025) to identify operational bottlenecks; found 27% of customers served by remote branches
- Designed a five-branch expansion strategy targeting underserved high-demand zones
- Allocated €1.36M investment while maintaining projected costs €220K under budget
- Developed Holt-Winters forecasting models to support board-level capital investment planning

Airline Hub Optimisation Model | UCD (2025)

- Built a mixed-integer optimisation model using FICO Xpress (Mosel) for a 12-city airline expansion scenario
- Integrated hub opening costs, environmental penalties and capital constraints into profit-maximisation framework
- Conducted sensitivity analysis on demand, emissions and budget scenarios
- Delivered strategic recommendations on profitability and network robustness

- 01/2021 – 02/2023

Database Systems Designer (Freelance),
Asmara, Eritrea.

- Designed and implemented customised database management systems for car rental businesses
 - Improved operational efficiency through structured data workflows
 - Advised small businesses on database optimisation and data governance practices
 - Provided introductory programming tuition (Scratch)
- 07/2023 - 01/2025

Customer Service Agent
Betna Ruftana Remittance Services, Kampala, Uganda

- Delivered real-time remote customer support for cross-border payment services
 - Resolved client inquiries efficiently while maintaining high service standards
 - Supported transaction accuracy and compliance within digital remittance operations.

SKILLS

- Programming:** Python, R, Java
- Databases:** SQL, DuckDB
- Analytics & Visualisation:** Tableau, Power BI, SPSS
- Optimisation Tools:** FICO Xpress (Mosel)
- Web:** HTML, CSS
- Version Control:** GitHub
- Microsoft Office:** Advanced Excel, Word, PowerPoint
- AI Tools:** Large Language Models, Prompt Engineering

- Strong foundation in numerical modelling, optimisation, statistics and computational problem-solving.
- Understanding of financial reporting, budgeting and performance analysis to support business strategy.

CERTIFICATIONS AND CPD

- Business Intelligence Data Analyst – Codecademy
- Python 3 – Codecademy
- R Programming – Codecademy

Award: UCD Scholarship Award

Volunteering:

- Contributed to the 14th Commencement Graduation Magazine, Eritrea Institute of Technology
- Assisted in organising annual academic events

LANGUAGES

English: Very Fluent

French: Intermediate.