

Tobin Carlton Van Buizen

Analytic Professional

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PROFESSIONAL SUMMARY

Analytical and adaptable mathematics & statistics honours graduate who started university at 15, and completed a double degree with first class honours at 20 from the Australian National University. Now with 6 years exposure to customer focused roles and recent hands on experience in federal IT service delivery and university teaching. Combines deep quantitative training: stochastic calculus, option pricing, advanced statistical modeling, with proven skill in automating workflows, translating complex concepts for nontechnical audiences, and delivering high impact data products. Energetic, reliable, and eager for fast paced professional challenges where rigorous thinking meets real world outcomes.

KEY COMPETENCIES & SKILLS

- **Stochastic Analysis:** High level of understanding of stochastic analysis with financial applications; including option pricing and investment optimisation, basics of Malliavin's stochastic calculus of variations, Black Scholes formula and hedging.
- **Mathematics and Statistics:** Strong abilities in a variety of mathematical and statistical topics including: generalised linear modeling, stochastic analysis, functional analysis, differential geometry, abstract algebra, homotopy theory, bayesian and statistical inference.
- **Programming & Tools:** Produce production-ready Python and R scripts (pandas, NumPy, ggplot2) and MATLAB toolboxes for numerical linear algebra, differential equation solvers, and GIS analytics.
- **Data & Reporting:** SQL/CMDB maintenance in ServiceNow, Power Query, Power BI, automated scheduling and dashboards.
- **Project & Service Management:** Requirements gathering, agile sprints, stakeholder engagement.
- **Communication & Training:** University level tutoring, technical documentation, workplace supervisor.
- **Productivity:** Microsoft Excel, ServiceNow, \LaTeX , Jira, Confluence.

PROFESSIONAL EXPERIENCE

Evolve Capabilities

Canberra, ACT

Data Analyst

Jan 2026 – Current

- Spearheading a geospatial data integration project, utilising PowerShell and Excel VBA to automate the ingestion of complex datasets from multiple sources.
- Designing and deploying web embedded Power BI dashboards that provide stakeholders with interactive, map-based insights, ensuring data accessibility and decision support.
- Facilitating requirements gathering and stakeholder engagement to ensure technical solutions align with business objectives and operational workflows.

Australian Public Service (APS)

Canberra, ACT

Configuration Management & Reporting Service Delivery Manager

Feb 2023 – Jan 2026

- Created systematic efficiencies that enabled users to self-serve such as interactive maps across various worksites.
- Created automated and scheduled dynamic reports using ServiceNow, SQL, Python and Power Query.
- Maintained a configuration management database in ServiceNow with ~270k assets and ~1.3m configuration items with auditable accuracy.
- Adapted to a fast paced and secure environment.
- Liaised with colleagues between teams to deliver strong outcomes to relevant stakeholders.
- Proven ability to learn quickly and adapt to new situations.

Australian National University (ANU)

Canberra, ACT

Workshop Demonstrator

July 2023 – Current

- Tutoring for undergraduate and postgraduate students across various classes for the following courses:
 - Discrete Mathematical Models (MATH1005/MATH6005)
 - Advanced Mathematics and Applications 1 (MATH1115)
 - Introduction to Mathematical Thinking: Problem-Solving and Proofs (MATH2222/MATH6222)
 - Algebraic Topology Honours (MATH4204)
- Teaching students to recall, invent, interpret examples of motivation for mathematical constructs used in discrete mathematics as models of processes in the world.
- Evaluating and marking assignments, providing constructive feedback to help students improve their work and

grasp mathematical concepts more effectively.

- Demonstrating strong communication skills in explaining abstract mathematical ideas in a clear and relatable manner.
- Tailoring explanations to diverse learning styles, enhancing engagement for both domestic and international cohorts.

Group Fitness Instruction

Next Gen Lifestyle Clubs

Aug 2022 – Sept 2025

Fitness First

Jan 2023 – Current

Team Fitness

July 2024 – Current

- Promoting a safe and inclusive environment for club members.
- Enhancing client experience by maintaining motivational and supportive culture.
- Encouraging and motivate participants to persevere through challenges to achieve new goals.
- Adapting classes to meet needs of participants with varying fitness levels.

Previous Employment (2019 – 2023)

- Self employed Tutor
- Bing Lee – Sales Assistant
- Next Gen – Receptionist Member Concierge
- Bathroom Warehouse – Store supervisor and trainer

EDUCATION

Australian National University (ANU)

Canberra, ACT

Bachelor of Mathematical Sciences with First Class Honours + Bachelor of Statistics

Nexacu

Canberra, ACT

Power BI Advanced Course

Nexacu

Canberra, ACT

Power BI Intermediate Course

Nexacu

Canberra, ACT

Power BI Beginner Course

Esri

ArcGIS Geographic Information Systems Foundations Course

PROJECTS

- **Honours Thesis: Twisted Topological Hochschild Homology** – 80 page thesis outlining the basics of stable, equivariant and equivariant stable homotopy theory, exploring new formulas to compute maps in twisted topological Hochschild homology.
- **Vector Bundles and K Theory Report: Odd Primary Hopf Invariant One** – Exposition and seminar talk on the Hopf Invariant one problem, and extending the maps from Steenrod squares to Steenrod powers to give an odd Hopf Invariant.
- **Differential Forms in Algebraic Topology Report: Applications of Differential Forms to Homotopy Theory** – An extensive report detailing relevant background including homotopy theory and differential forms basics. Exploring the relationship between the two topics through differential graded algebras and minimal models.
- **Stochastic Analysis Report: Lévy Integration** – Report and seminar talk discussing Poisson integration, Lévy-Itô decomposition and Lévy stochastic integrals, detailing a worked example and financial applications.
- **Stable Homotopy Theory Report: C_2 Equivariance and KR Theory** – An extensive exposition and seminar talk providing relevant background including equivariant and equivariant stable homotopy theory basics, the slice spectral sequence, to then give specific computations for KR theory.

ADDITIONAL INFORMATION

- The Scariest Maths Topic – “Maths in the Pub” presentation May 2025
- Received the Caltex All-Rounder Award: in recognition of excellence in academic, leadership, sporting and community service activities
- Member of MENSA Australia
- BSSS Certificate of Excellence for outstanding achievement in physics
- Current ACT Working with Vulnerable People card holder
- First Aid and CPR Qualified
- Powerlifting (National amateur competitor)