

Harry Breden

EDUCATION

Bachelor of Science (advanced major in Mathematics and Data Science), The University of Sydney

- Weighted average mark (WAM): 92.0
- High Distinction in all-but-one units taken.
- Notable marks:
 - Foundations of Data Science (Advanced) 100
 - Geometry and Topology 99
 - Projects in Mathematics 99
 - Data Analytics: Learning from Data (Advanced) 98
 - Science Dalzell Individual Research Project (Pure Maths) 98
 - Linear and Abstract Algebra (Advanced) 97
 - Discrete Mathematics and Graph Theory 97
 - Statistical Consulting (Advanced) 95
 - Optimisation and Financial Mathematics 93
 - Analysis (Advanced) 93
 - Data Structures and Algorithms (Advanced) 93
 - Discrete Mathematics (Advanced) 93
 - Introduction to Programming 93
 - Writing with LaTeX 93
 - Data Science Capstone 92
 - Calculus of One Variable (Special Studies Program) 91
 - Measure Theory and Fourier Analysis (Advanced) 91
 - Informatics: Data and Computation (Advanced) 90
- Expected completion: December 2025
- Scholarships:
 - Farrand Science Scholarship
 - Plumian Scholarship
- Prizes:
 - Dean's List of Excellence in Academic Performance
 - University of Sydney Academic Merit Prize
 - Citadel Prize for First Year in Mathematics and Statistics
 - USA Foundation Prize in Statistics
 - Citadel Prize for Second Year in Mathematics and Statistics
- Societies:
 - 180 Degrees Consulting Society
 - SUMS (Sydney University Mathematics Society)
 - SciSoc
 - SUDATA
- Committees:
 - Physics Equity and Access Committee

Higher School Certificate, Barker College

Graduated 2021

- ATAR: 99.85
 - Mathematics Extension 1 99
 - Mathematics Extension 2 96
 - Physics 96
 - English Advanced 95
 - Science Extension 47
 - Geography 94
- School Vice-Captain

WORK EXPERIENCE

Visagio Australia 2022 - Present

Technical and Management Consultant Intern

- Promoted to Intern II position after receiving a Top Performer grade in first evaluation cycle (July 2023).
- Data Analytics Projects
 - Lead script and workflow developer for an ongoing project (1.5+ years) within the Business Research and Analytics team of a major national rail transport provider. Developed integrated Python and SQL workflows to identify and quantify opportunities for safety improvements. Project deliverables included dynamic Tableau and PowerBI reports for internal customers. Coordinated on-track operational trial to optimise driver behaviour based on data-driven insights analysing fuel usage.
 - Worked within a Tier 1 mining company to create interactive animations in AnyLogic that visualised a discrete-event simulation forecasting production in seven mine-to-port value chains. Produced input data and distributions based on historical production data for discrete-event simulation.
 - Developed Natural Language Processing proof-of-concept to automatically categorise free-text-entry safety reports for a mining company. Created model to forecast likelihood of safety events at mine sites.
- Skills
 - Python
 - SQL
 - DataBricks
 - Tableau
 - AnyLogic
 - PowerBI

The University of Sydney 2024-Present

Casual Academic

- Tutor for DATA1001 and DATA2002

Barker College 2022 - 2024

Robotics Mentor.

ACHIEVEMENTS

Barker College 2021

- School Vice-Captain and Prefect
- Vindin Leaving Certificate Prize (highest ATAR achieved in cohort of 347)
- High Distinction in The Australian Maths Competition
- 3rd place in the ROWE Scientific Investigation Award Physics for STANSW Young Scientist

OTHER INTERESTS

- Community Volunteering at OzHarvest
- Fitness and social sport

REFEREES

Brad Caldwell-Eyels

Managing Director

1st City Real Estate

M: 0414 246 652

Jeser Becker

Head of Robotics

Barker College

M: 0424 530 639