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W: harrybreden.github.io

# Harry Breden

## EDUCATION

Bachelor of Science (double advanced major in Mathematics and Data Science), The University of Sydney 2022
- Weighted average mark (WAM): 92.2
- High Distinction in all units taken.
- Notable marks:
  - Foundations of Data Science (Advanced)                100
  - Geometry and Topology                99
  - Data Analytics: Learning from Data (Advanced)        98
  - Science Dalyell Individual Research Project        98
  - Linear and Abstract Algebra (Advanced)        97
  - Analysis (Advanced)                93
  - Data Structures and Algorithms (Advanced)        93
  - Discrete Mathematics (Advanced)                93
  - Introduction to Programming                93
  - Writing with LaTeX                93
  - Calculus of One Variable (Special Studies Program) 91
  - Informatics: Data and Computation (Advanced)        90
  - Economic Strategy and Negotiation                90
- Expected completion: 2024
- Scholarships recipient:
  - 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
- Societies:
  - 180 Degrees Consulting Society
  - SUMS (Sydney University Mathematics Society)
  - SciSoc
- 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**

Data Science/Technical Consultant Internship
- 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 a year-long project 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 reports for internal customers.

- Skills
  - Python
  - SQL
  - DataBricks
  - Tableau
  - AnyLogic

**Barker College 2022 - Present**

Robotics Mentor

**Atomi 2021 - 2021**

Junior Content Creator
- Generated educational content for Yr 11 Physics for Australian curriculums.

**Tutor 2020 - Present**

Private Tutor and W&T Academy Tutor.

## ACHIEVEMENTS

**Barker College 2021**
- School Vice-Captain and Prefect
- Featured Research Article author in The Australian Institute of Physics Magazine
- Vindin Leaving Certificate Prize (highest ATAR achieved in cohort of 347)
- High Distinction in The Australian Maths Competition
- Credit in the UNSW Maths Competition
- 3rd place in the ROWE Scientific Investigation Award Physics for STANSW Young Scientist
- Maths Extension 2 Prize (1st in cohort)
- Head of Barker College's Endeavour Award
- Captain of Robotics "4613 Barker Redbacks" Electronics and Pneumatics Team (2018-21)
- Member of Robotics FRC Hall of Fame Inductee Team (2021)
- 2nd XI Football Team (2022-21)

## 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