Dean Marchiori

PRINCIPAL DATA SCIENTIST | APPLIED STATISTICIAN

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About Me

Principal Data Scientist, Statistician and industry leader with over 10 years experience working in and leading high performance data science teams.

- University Medalist in Mathematics with dual Masters degrees in Statistics and Finance.
- Expert level R programmer, proficient in Python, SQL, C.
- Microsoft Certified Azure Machine Learning Data Scientist Associate, proficient in Docker, Azure MLOps, CI/CD, Posit Connect.

Experience

Wave Data Labs

DIRECTOR & PRINCIPAL DATA SCIENTIST   *May 2023 - Present*

- Independent consultant and contractor in data science, machine learning, applied mathematics and statistical modelling.
- >$400k projects delivered in 18 months.
- Implemented projects from design through to Production MLOps deployments with full CI/CD pipelines.

Endeavour Energy

DATA SCIENCE TEAM LEAD / DATA INSIGHTS MANAGER   *Apr 2021 - May 2023*

- Established, hired and managed Endeavour's first totally greenfield data science team.
- Implemented enterprise wide Microsoft Azure Machine Learning & Posit Connect platforms (1000+ staff organisation).
- Led over 20 data science projects including peer reviewed scientific publications and mission critical decision support systems.

SENIOR DATA SCIENTIST   *Oct 2019 - Apr 2021*

- Bush fire risk modelling on the electricity grid informing the impact of the removal of over 200 hazardous trees.
- Vegetation management optimisation to reduce > 5% OPEX on multi-million dollar maintainence budget.
- Developed and deployed a machine learning model to predict the imapct of severe storms on the electricty grid with >90% accuracy.

Macquarie University

SESSIONAL TEACHING ACADEMIC - SCHOOL OF MATHEMATICAL AND PHYSICAL SCIENCES   *Feb 2022 - Sep 2023*

- Instructor in Mathematics & Statistics to over 200 students.

Internetrix - Acquired by XPON Technologies Group (ASX:XPN)

HEAD OF DATA SCIENCE   *Mar 2018 - Oct 2019*

- Led 2 x research projects with the University of Wollongong SMART Facility totalling > $150k in research funding.
- Product development of time series anomaly detection software.
- Greenfield development and launch of internal data science consulting practice.

IRT Group

SENIOR STATISTICIAN   *Nov 2016 - Mar 2018*

- Unsupervised ML / Clustering / Customer Segmentation for NFP Aged Care Provider.
- Introduced call-centre staffing optimisation model resulting in > 10% OPEX reduction opportunities.
- Developed and piloted the first ever use of AB Testing and experimental design for marketing campaigns.

ANZ Banking Group

SENIOR DATA ANALYST   *May 2014 - Oct 2016*

- Advanced statistical modelling.
- Built marketing campaign analysis apps (Shiny).
- Programming in R, SAS, SQL.

BUSINESS INTELLIGENCE ANALYST   *Oct 2012 - May 2014*

- Designed call centre and queuing optimisation methods.
- Completed time series analysis.
- Implemented major telecommunications technology project.

EQUITIES TRADER   *Jun 2011 - Oct 2012*

- Trading domestic and international equities, warrants, managed funds.

Education

Macquarie University *Sydney, Australia*
MASTER OF APPLIED STATISTICS *2020 - 2021*
- GPA of 6.87 out of 7
- Awarded Macquarie University Award for Academic Excellence
- Awarded Julian Leslie Prize in Statistics

Charles Sturt University *Bathurst, Australia*
BACHELOR OF SCIENCE (MATHEMATICS) *2013 - 2017*
- GPA of 6.87 out of 7
- Awarded Undergraduate University Medal
- Mathematics Major

Charles Sturt University *Bathurst, Australia*
BACHELOT OF SCIENCE (MATHEMATICS) *2013 - 2017*
- Statistics Minor

Kaplan Professional *Sydney, Australia*
MASTER OF APPLIED FINANCE *2010 - 2013*
- Major in Financial Markets and Trading
- Graduated with Distinction

Awards & Achievements

2021	Julian Leslie Prize in Statistics- Macquarie University
2021	Macquarie University Award for Academic Excellence - Macquarie University
2019	Placed #8 in Top 25 Analytics Leaders in Australia - IAPA
2017	Undergraduate University Medal - Charles Sturt University
2017	Faculty of Science - Executive Dean's List Award - Charles Sturt University
2016	Faculty of Science - Executive Dean's List Award - Charles Sturt University
2015	Faculty of Science - Executive Dean's List Award - Charles Sturt University
2005	Order of Australia Certificate of Commendation - Council of the Order of Australia
2005	Young Australian of the Year (Shoalhaven) - Aust. Day Council

Organisations

Statistical Society of Australia *Australia*
ACCREDITED STATISTICIAN *2025*
- Holds the 'Accredited Statistician' professional accreditation

Statistical Society of Australia *Australia*
CO-CHAIR *2025*
- Co-Chair of the Section for Statistical Computing and Graphics

Statistical Society of Australia *Australia*
CHAIR *2025*
- Chair of the Data Science and Accrediation Working Group

Surf Lifesaving NSW *Wollongong, Australia*
SURF RESCUE LIFESAVER *2024*
- Bronze Medallion, Advanced Resuscitation, Cert IV Public Safety (Aquatic Rescue)

St John Ambulance Australia (NSW) *NSW*
FIRST RESPONDER *2006*
- Over 500hrs as front line first responder to medical emergencies
- Received Order of Australia Commendation and Young Australian of the Year Award (Shoalhaven) for meritorious service