Michael Dear

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Summary

I am a self-motivated, imaginative problem-solver with a broad range of analytical skills. I recently completed the Graduate Diploma in Science (Applied Statistics) with the University of New England. My career objective is to use remote sensing and geospatial analysis for environmental protection and sustainability.

Career history

Mathematics Teacher (Secondary) at NSW Department of Education
October 2004 – December 2023

Classroom teacher in comprehensive state high schools in Western Sydney and the Blue Mountains, NSW.

Key responsibilities

- Development and delivery of high-quality teaching programs to students with diverse needs
- Development and delivery of assessment tasks that drive student learning
- Integrating, analysing, and producing concise reports about school and educational data for evidence-based decision making
- Liaising with parents and other stakeholders regarding the progress and well-being of students

Achievements

- Teacher of Extension 2 (4 Unit) Mathematics, 2014 - 2019
- School statistician and founding member of the school data team
- Development of a dashboard using Google Data Studio to provide teachers with an overview of the academic and wellbeing status for individual students
- Comprehensive review of Aboriginal education within the school including NAPLAN and HSC achievement
- Implementation of standardised faculty procedures including teaching programs and assessment plans, and the use of cloud-based technologies for on and off-site communication
- Support and induction of new team members

Key skills

Analytical problem solving; Collection, analysis and reporting on data using Python, R, and Excel; Analysing and modelling remote sensing satellite datasets using Python and QGIS; Communicating complex ideas in accessible language; Adaptable to rapidly changing circumstances; Meeting deadlines; Working both independently and within a large team.

Education	**GDSC - Graduate Diploma in Science (Applied Statistics)** from University of New England

In progress

Units and Results

Code	Unit Name	Result	Grade
STAT410	Statistical Modelling and Experimental Design	91	HD
STAT420	Advanced Statistical Modelling	99	HD
STAT430	Statistical Learning	91	HD
STAT470	Statistical Inference	90	HD
GISC436	Remote Sensing and Image Analysis	92	HD
SCI499*	Graduate Diploma in Science Thesis	Result pending	

* Research topic – A comparison of techniques for analysing vegetation dynamics in the Blue Mountains National Park, New South Wales, 1988-2023.

GDED - Graduate Diploma in Education from University of New England
Graduated 2004

BSC - Bachelor of Science from University of New England
Graduated 2003

Short Courses

Coursera: Interactive Geospatial Visualization: Kepler GL & Jupyter Lab; Geospatial Big Data Visualization with Kepler GL; Climate Geospatial Analysis on Python with Xarray; Geospatial Data Visualization using Python and Folium; Introduction to Git and GitHub (Google)

Volunteering

BirdLife Australia Key Biodiversity Guardian for the Greater Blue Mountains, NSW, Australia

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Online Links

Portfolio: https://mjdear68.github.io/portfolio/
LinkedIn: www.linkedin.com/in/mjdear68