



Todd M. Ellis

DATA ANALYST & STATISTICAL PROGRAMMER

Greater Hobart Region, Tasmania, Australia
June 2025

+61 466 683 552 | toddellis.wa@gmail.com | 0000-0002-4410-8676 | [q6vTAroAAAAJ](#) | [Todd-Ellis-4](#) |
[toddellis](#) | [tmichaelellis](#)

PROFESSIONAL SUMMARY

I'm a data analyst and early career researcher with a varied background in forest ecology, pyrogeography, climate change, geospatial science, and higher education. I've worked as an analyst and researcher in a variety of laboratory, field, and office settings throughout the United States and Australia. Over the course of my career, I've developed novel mathematical tools and statistical models; maintained relational databases and statistical packages used for conducting data analysis and producing standardized reports; trained countless staff, students, and volunteers in institutional policies and procedures, as well as methodological approaches to statistical analysis; and managed both complex and transformative projects for higher education, government agencies, and private industry. My research has been published in high-impact, peer-reviewed journals, and I'm also skilled at conveying complex data and information to both casual and experienced stakeholders.

EDUCATION

Doctor of Philosophy, Biological Sciences

UNIVERSITY OF TASMANIA

Sandy Bay, TAS, Australia

2019 - 2025

Master of Science, Geography

WESTERN WASHINGTON UNIVERSITY

Bellingham, WA, USA

2013 - 2016

Bachelor of Science, Physical Geography and Geology

TEXAS STATE UNIVERSITY

San Marcos, TX, USA

2007 - 2012

PROFESSIONAL EXPERIENCE

Research Associate

UNIVERSITY OF TASMANIA: SCHOOL OF NATURAL SCIENCES (FULL-TIME)

Sandy Bay, TAS, Australia

2024-04 - present

- Developing complex data-processing and analysis pipelines using high-performance computing and big data
- Designing and managing organisational research databases for spatial and big data applications
- Overseeing collaborative research projects investigating issues of climate change risk
- Working closely with stakeholders to provide applied solutions to complex research questions

Data Insights Analyst

UNIVERSITY OF TASMANIA: STUDENT SERVICES AND OPERATIONS (FULL-TIME)

Sandy Bay, TAS, Australia

2023-01 - 2024-04

- Managed the development and implementation of a transformative statewide program to improve equity of access to higher education
- Lead the development of statistical models and reporting tools for managing offers and course quotas
- Streamlined and automated the higher education admissions system for school leavers
- Provided insights and consultations to institutional and external stakeholders

Adjunct Researcher

UNIVERSITY OF TASMANIA: COLLEGE OF SCIENCES AND ENGINEERING (FULL-TIME)

Sandy Bay, TAS, Australia

2019-09 - 2023-03

- Developed complex data-processing and analysis pipelines using high-performance computing and big data
- Oversaw multi-year project design and implementation addressing wildfire and global climate change challenges
- Managed custom platform for interactive web-mapping, on-the-fly statistical analyses, and novel data visualisation
- Collaborated with national and international research teams tackling climate change risk and mitigation

Data Analyst

UNIVERSITY OF TASMANIA: DIVISION OF FUTURE STUDENTS (PART-TIME / FULL-TIME)

Sandy Bay, TAS, Australia

2021-02 - 2023-01

- Developed statistical models and tools for meeting target university milestones
- Managed design and implementation of broad-scale university ML models for directing future university marketing, funding, and course creation
- Designed and implemented programming and data analytics training seminars for institution staff
- Oversaw development of internal reporting and statistical packages

Sustainability Analyst

Sandy Bay, TAS, Australia

UNIVERSITY OF TASMANIA: DIVISION OF FUTURE STUDENTS (CASUAL)

2019-10 - 2021-02

- Processed, analysed, and reported data to promote and review institution programmes
- Developed pipelines for automating data cleaning and collation
- Prepared data and briefings for global institution rankings
- Promoted nation-wide sustainability targets using data dashboards and reports

CONSULTING

- 2020-08

Predicting fire behaviour using historical satellite imagery
Frontier Development Lab
- 2019-06

Post-fire logging effects on reburn severity
USDA Forest Service
- 2018-08

Restoration treatment effects on ponderosa pine growth sensitivity to climate
USDA Forest Service

HONOURS

- 2024-11

Resilient Australia National Collaboration and Partnership Award
Australian Institute for Disaster Resilience
- 2023-09

Student Services and Operations (SSO) Division Student Focus Award
University of Tasmania
- 2022-11

Future Students Staff Excellence 2022 Sustainability Award
University of Tasmania
- 2021-10

NSW Environment, Energy and Science (DPIE) Eureka Prize for Applied Environmental Research
Australian Museum
- 2021-09

Future Students Staff Excellence 2021 Sustainability Award
University of Tasmania
- 2021-08

Certi-Cat of Appreciation
Ten Lives Cat Centre

VOLUNTEER EXPERIENCE

University Research Committee Member

Sandy Bay, TAS, Australia

UNIVERSITY OF TASMANIA ACADEMIC SENATE

2024-12 - present

Foster Parent

Hobart, TAS, Australia

TEN LIVES CAT CENTRE

2020-05 - present