

# Enna Huang

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## Professional Profile

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Data Science postgraduate student with a multidisciplinary background in Environmental Science and Applied Data Analytics. Proficient in Python, R, SAS, and SQL, with hands-on experience in machine learning, data visualization, and statistical analysis. Demonstrated capability to deliver actionable insights through past research and consulting projects. Seeking opportunities to leverage advanced data science techniques to address complex problems.

## Education

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University of South Australia	2023 - 2025
Master of Data Science (Postgraduate) GPA 6.5	Adelaide, SA
The University of Adelaide	2021 - 2023
Applied Data Analytics in BAPDA - Applied Data Analytics (Environment Major)	Adelaide, SA
The University of Adelaide	2019 - 2021
Bachelor of Science in BSCWCB - Wildlife Cons Biology	Adelaide, SA

## Key Skills

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Programming language:

Python, R, SQL, SAS

- Employed in various data analytics projects and research, ranging from COVID-19 trends to climate indices.

Soft skills:

Critical thinking, Written communication, Open-mindedness, Reporting, Collaboration

- Leveraged to derive insights and produce comprehensive reports in cross-disciplinary projects, working effectively with cross-functional teams.

Hard skills:

Machine learning, Remote sensing, Data visualizing, Modeling, Forecasting, Researching, Statistical analysis, Earth Observation, Ecology

- Applied in a variety of research projects, employing machine learning algorithms and statistical models for data analysis, visualization, and reporting.

Language:

- English: Fluent; used in all academic and professional settings.
- Chinese: Native proficiency in Mandarin and Cantonese; applied in international roles.

## Work Experience

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### Op Shop Retail Assistant

RSPCA (SA) Inc

2022 - now

Adelaide, AU

Consistently delivered high-quality customer service by proactively greeting clients, assisting with product inquiries, and facilitating sales transactions.

Contributed to visual merchandising and display set-up, including sorting, and pricing of new merchandise, and ensuring the store was clean and organized at all times.

Collaborated with a team of volunteers to support fundraising initiatives and events, resulting in increased revenue and community engagement for local charities.

### Data Analytics Consulting Virtual Internship

KPMG

Dec 2022 - Dec 2022

Adelaide, AU

Designed and delivered a comprehensive data insights and presentation document for the client, outlining key data-driven recommendations and strategic action plans. Collaborated with cross-functional teams to integrate data analytics insights into business operations and decision-making.

## Information Specialist

Guangzhou Institute of Forestry and Landscape Architecture

Nov 2021 - Feb 2022

Guangzhou, CN

Conducted advanced research and analysis in the field of landscape architecture, with a focus on colour preference and its impact on environmental factors. Analyzed leaf area in connection to PM2.5 and helped develop a resource-centric approach towards green space planning.

Designed and executed phenological observation protocols to study seasonal changes, plant health and environmental impact in the studied region, demonstrating proficiency in precision data collection and analysis.

Using advanced digital mapping techniques and software, developed enhanced mapping and visualization tools for invasive species detection.

## Projects

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University of South Australia

2023 - now

Adelaide, AU

### Analysis of COVID-19 Trends in Five Australian States

[https://github.com/Enna2023/Statistical-Programming-for-Data-Science/blob/main/assignment1/data/COVID-19\\_in\\_Australia.ipynb](https://github.com/Enna2023/Statistical-Programming-for-Data-Science/blob/main/assignment1/data/COVID-19_in_Australia.ipynb)

Analysed COVID-19 cases and death trends in five major Australian states.

Data Preprocessing, Exploratory Data Analysis, Correlation Analysis and data visualization.

Identified trends and correlations in COVID-19 cases and deaths across five Australian states up to December 2020.

Noted limitations and suggested areas for future research including vaccination rates and policy timelines.

### Yelp Reviews Analysis

<https://github.com/Enna2023/Statistical-Programming-for-Data-Science/blob/main/Assignment2/yelp.pdf>

In-depth analysis of Yelp reviews.

Data preprocessing, Exploratory Data Analysis, Sentiment Analysis, Time-Series Analysis, Statistical Testing.

Identified trends and correlations in Yelp reviews.

Noted limitations and suggested areas for future research including sentiment analysis and time-series analysis.

### Analysis of the Data Science Job Market in Australia

[https://github.com/Enna2023/Statistical-Programming-for-Data-Science/blob/main/exam/v1/report\\_exam\\_3.pdf](https://github.com/Enna2023/Statistical-Programming-for-Data-Science/blob/main/exam/v1/report_exam_3.pdf)

Analyse the Data Science job market in Australia.

Exploratory Data Analysis, Identified common job titles and industries, Temporal Analysis.

Identified trends and correlations in the Data Science job market in Australia.

Noted limitations and suggested areas for future research including sentiment analysis and time-series analysis.

The University of Adelaide

2021 - 2022

Adelaide, AU

### Correlation Between Climate Indices and Rainfall Patterns in Australia

Conducted comprehensive analysis using the ERA-5 dataset. Utilized Python for data preprocessing, visualization, and statistical modelling. Derived key insights to inform future climate.

### Flooding Hazard Analysis

Environmental report on coding hazards in relation to solid waste landfill. Researched the impact of natural disasters on solid waste management systems, potential health risks, and impacts on surrounding ecosystems.

Utilized GIS technology for mapping and developed risk assessment models.

## Additional Information

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### Awards

- GovHack 2022 South Australia WINNER

### Community involvement

- Chinese Students and Scholars Club of UniSA, RSPCA member

## Referees

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### Lucy Feltus

- Manager, RSPCA SA
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