

# Johann Wagner

## PROFESSIONAL SUMMARY

Self-learning data scientist leader with a curiosity to discover novel data applications for social change. My experience lies in economics and health data science/analytics: cleaning, wrangling, visualising in R to develop insightful data-driven solutions prioritising time-critical tasks. My professional life goal is to exercise my instinctive drive to continuously learn and thrive by surrounding myself around other passionate learners.

### Programming

- R (Script & Quarto & Shiny)
- Python
- ArcGIS
- SQL / SAS
- MATLAB / JMP / STATA

### Interpersonal

- Enabler / self-leadership style
- Active empathetic listener
- Trust-centered coaching approach
- Adaptability between big picture and detailed thinking

### Knowledge

- Data science workflow
- Econometric time series models
- Economic modelling
- Spatial Visualisation

## EXPERIENCE

### Jobs and Skills Australia — Data Scientist

May 2024 – Present

- Responsible for the maintenance and improvement of two monthly data science models: the Nowcast of Employment by Region and Occupation (NERO) and the Internet Vacancy Index (IVI).

### Department of Education — Economic / Data Analyst

July 2023 – May 2024

- Economic modelling the returns to education; forecasting the early childhood education and care workforce shortage; upskilling R programming and data capabilities. Use of HILDA survey and PLIDA data products.

### Nous Group — Intern Consultant

September 2022 – November 2022

- Evaluation projects with the Department of Health and Aged Care, survey analysis and spatial visualisations in R, Azure DevOps, Agile methodology, report and proposal writing

### Australian Bureau of Statistics — Student Data Scientist

March 2022 – July 2022

- Designing deterministic and probabilistic data linkage strategies in SAS / R / Python integrating various government administrative data to produce the Multi-Agency Data Integration Project (MADIP).

### ACT Health (COVID-19 Response) — Data Officer

April 2021 – April 2022

Assisting the lead data scientist in creating data products in R informing data-driven intelligence to the Response.

- Responsible for producing data de-identifying/cleaning/wrangling/debugging R scripts to facilitate reporting and analysis of COVID-19 patterns to assist in the public health response.

- Conceptualised GIS-based solutions in R Markdown to improve the public communication of public health orders using spatial data visualisation integrating COVID-19 health data and ABS ASGS data.
- Maintained data dictionaries and catalogues promoting effective data governance within the Response.
- Founder of an active weekly work culture activity, *Frisbee Fridays*, focusing on the improvement of the mental and physical wellbeing.

### **National Skills Commission — Junior Economist**

**June 2021 – Dec 2021**

Nowcasting a national indigenous employment-to-population ratio using machine learning processes in R.

- Responsible for data cleaning/enriching various data sources (ABS Labour Force Survey, ABS Census, HILDA, Burning Glass, NSC Internet Vacancy Index, ABS Weekly Payroll Jobs).
- Smoothing multiple models (Random Forest, Gradient Boosting, and Elastic Net) into a single estimate.

## **EDUCATION**

### **Australian National University — Bachelor of Science & Bachelor of Economics**

January 2019 – December 2023

- Major in Quantitative Environmental Modelling, and Economics
- Minor in Econometrics & Applied Statistics
- 6.474 GPA
- ANU College of Business and Economics Special Industry Project Excellence Award
- ANU College of Business and Economics National Excellence Scholarship

### **German International School Sydney — International Baccalaureate**

Completed in May 2018

- 99.40 ATAR / 42 IB Score
- Head of Student Representative Council

## **VOLUNTEER EXPERIENCE**

ANU Ultimate Frisbee Club 2021 / 2022 - Club Treasurer / Head Coach

Burton & Garran Hall 2019/2020/2021 - Bar Manager / Treasurer / Running Coach / Frisbee Coach

National Youth Science Forum 2018/2019 - Student Staff Leader

## **AWARDS**

- Rotary Youth Leadership Awards 2020
- Toastmasters Youth Leadership Program for Public Speaking and Leadership
- London International Youth Science Forum
- German Language Certificate at level C1 (professional working proficiency)

## **REFERENCES**

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