DR SHELLY LACHISH

Motivated, successful data scientist with 15 years' experience in both industry and academia. Expertise in the analysis, interpretation and presentation of large, complex data. Effective and collaborative communicator. Proficient in technical writing with strong project management skills. Curious, competent, and creative.

🖥 CAREER SUMMARY

current | 2023

Data Scientist
Environment Division · 📍 CSIRO

- Develop species distribution modelling data pipelines.
- Create web-based apps to enable data exploration and access for researchers using R Shiny.
- Develop a freshwater RiverATLAS database for Australian rivers.

2022 | 2019

Data Analyst
UK Biobank · 📍 Oxford Big Data Institute

- Developed analytical pipelines to query databases, automate reporting, and create dashboards/visualisations.
- Built ETL data pipelines to import disparate electronic health records into the UKBiobank databases.
- Provided statistical and analytical expertise to optimise researchers use of the biobank data resources.

2019 | 2017

Daphne Jackson Postdoctoral Research Fellow
Department of Zoology · 📍 University of Oxford

- Applied novel, cutting-edge stochastic simulation modelling and statistical methods to conducted original research on topics in ecology, climate and infectious disease.
- Applied advanced statistical models to analyse and interpret large data sets to reveal insights and test scientific hypotheses.
- Supervised PhD students to fulfill their doctoral studies.

2017 | 2015

Research Analyst
Medical Careers Research Group · 📍 University of Oxford

- Published scientific papers and government reports with data from the UK Medical Careers Survey.
- Applied quantitative and qualitative statistical tools to reveal insights in health workforce indices and metrics.

CONTACT

- ✉ shellstar@gmail.com
- 📞 (+61) 0434304702
- Github
- in LinkedIn
- 🌐 shellyl.me

View this CV online here

SKILLS

- ETL / Data wrangling
- Statistical analysis
- Modelling
- Reporting / Dashboards
- Data visualisation
- Data communication
- Scientific research

TECH STACK

- R / Shiny
- SQL
- Git / SCM
- Bash
- HTML
- CSS

RESEARCH

Please see my Google Scholar page for a full list of my research papers.

2013 • **Policy Writer**

Mathematical Ecology Research Group 📍 University of Oxford

· Produced policy brief on regulating GMOs for UK gov agency (DEFRA).

2012 • **NERC Postdoctoral Research Fellow**
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2010 Department of Zoology 📍 University of Oxford

· Conducted, published and presented research in ecology, population dynamics, disease.
· Analysed and interpreted complex data using leading statistical and modelling methods.

2010 • **Science Writer and Editor**
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2017 Freelance 📍 Oxford, UK

· Writing for: Oxford Science Blog, Living Spain Magazine, 72&Rising, Sabotage Times
· Editing for Oxford Science Editing, Edanz, private clients.

🎓 EDUCATION

2010 • **Doctor of Philosophy (PhD). Infectious Disease Ecology.**
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2005 School of Biological Sciences 📍 University of Queensland

1999 • **BSc Ecology (wtih 1st class Hons)**
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1995 Department of Zoology and Entomology 📍 University of Queensland

🏅 GRANTS AND AWARDS

• Daphne Jackson Postdoctoral Fellowship (£82,000); NERC Urgency Grant (£60,000); Ian Potter Research
Grant ($130,000), Wildlife Disease Association Student Award ($5,000)

💬 INVITED SEMINARS

• Centre National de la Recherche Scientifique (France, 2018); Big Data Institute (UK, 2018); University of
Queensland (Aust, 2011); Zoological Society of London (UK, 2011)

🖥 TEACHING EXPERIENCE

• Programming in R with the Tidyverse (Big Data Institute, 2022); Introduction to Text Mining in R (Big Data
Institute, 2021); St Hilda's College Biology Tutor (2018 – 2019); University of Oxford DPhil Supervisor (2010 –
2012); UQ University Tutor (2007 – 2009)

👥 PROFESSIONAL SERVICE

• BDI Coding Committee (2019 – 2022); Oxford Early Career Researcher Network (2017 – 2019); British
Ecological Society member (2011 – 2020)