

DR SHELLY LACHISH

Motivated, successful data scientist with experience in both industry and academia. Expertise in the management, analysis, interpretation and presentation of large, complex data. Effective and collaborative communicator. Highly proficient in technical writing, with strong organisational and project management skills. Adaptable, meticulous, creative and curious.

EDUCATION

- 2010
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2005 • **Doctor of Philosophy (PhD). Disease Ecology.**
School of Biological Sciences 📍 University of Queensland
- 1999
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1995 • **BSc (Hons). Ecology/Zoology (1st class)**
Department of Zoology and Entomology 📍 University of Queensland

CAREER SUMMARY

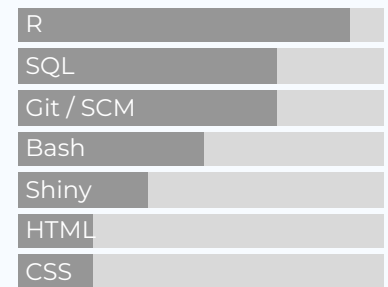
- current
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2023 • **Data Scientist**
Environment Division 📍 CSIRO
 - Develop streamlined modelling pipelines to automate species distribution modelling and mapping
 - Assist in the development and management of a new Australian freshwater RiverATLAS
- 2022
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2019 • **Data Analyst**
UK Biobank 📍 University of Oxford
 - Provide statistical and analytical expertise to researchers, UK Biobank epidemiologists and database administrators.
 - Develop software and applications to query databases, automate reporting, produce visualisations, and perform statistical analyses.
 - Build ETL data pipelines to import disparate electronic health records into the UK Biobank databases.
 - Work with database administrators to validate and ensure data quality and integrity.
- 2019
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2017 • **Daphne Jackson Postdoctoral Research Fellow**
Department of Zoology 📍 University of Oxford
 - Conducted original research on topics in ecology, population dynamics, infectious disease.
 - Managed, analysed, and interpreted large data sets using cutting-edge statistical and modelling methods.
 - Published and presented papers at conferences and meetings.
 - Supervised graduate and postgraduate students.

CONTACT

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

View this CV online [here](#)

TECH STACK



SKILLS



RESEARCH PAPERS

Please see my [Google Scholar](#) page for a full list of my research papers.

Made in R with [pagedown](#).
Source code available [here](#).

- 2017
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2015

Research Analyst
 Medical Careers Research Group

University of Oxford

 - Published scientific papers and government reports using data from the 40-year UK Medical Careers survey.
 - Developed and maintained data pipelines for processing and analysing survey data.

- 2017
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2011

Science Writer and Editor
 Freelance

Oxford, UK

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

- 2013

Policy Writer
 Mathematical Ecology Research Group

University of Oxford

 - Researched policies for regulating genetically modified organisms.
 - Produced policy brief for members of DEFRA.

- 2012
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2010

NERC Postdoctoral Research Fellow
 Department of Zoology

University of Oxford

 - Research areas: ecology, evolution, population dynamics, infectious disease dynamics.
 - Analysed, interpreted complex data sets using varied statistical modelling methods.
 - Published scientific papers and presented research at conferences and meetings.
 - Supervised graduate and postgraduate students.



TEACHING EXPERIENCE

- 2022

Programming in R with the Tidyverse
 Big Data Institute

University of Oxford

- 2021

Introduction to Text Mining in R (online course)
 Big Data Institute

University of Oxford

- 2019
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2018

Stipendiary Biology Tutor
 St Hilda's College

University of Oxford

 - Taught ecology, statistics, epidemiology, conservation, genetics

- 2012
|
2010

DPhil Supervisor
 Department of Zoology

University of Oxford

 - Supervised: Dr Irem Sepil and Dr Antica Culina



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)



PROFESSIONAL SERVICE

- BDI Coding Committee (2019 - current); Early Career Researcher Network (2017 - 2019); British Ecological Society member (2011 - 2020)