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 | 2005

Doctor of Philosophy (PhD). Disease Ecology.
School of Biological Sciences 📍 University of Queensland

1999 | 1995

BSc (Hons). Ecology/Zoology (1st class)
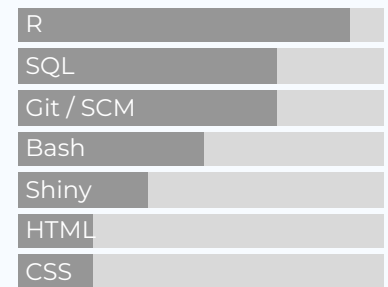Department of Zoology and Entomology 📍 University of Queensland

🖥 CAREER SUMMARY

current | 2019

Data Analyst
UK Biobank 📍 University of Oxford

- Provide statistical and analytical expertise to researchers, UKBiobank epidemiologists and database administrators.
- Develop software and applications to query databases, automate reporting, produce visualisations, and perform statisical 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 | 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.

2017 | 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.

CONTACT

- ✉ shellstar@gmail.com
- 📞 (+44) 07716383098
- Github
- in LinkedIn
- 🌐 shellyl.me

View this CV online here

TECH STACK

R	
SQL	
Git / SCM	
Bash	
Shiny	
HTML	
CSS	

SKILLS

Scientific research
Data wrangling / ETL
Data visualisation
Statistical analysis
Reporting
Modelling

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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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
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2010 | ● | **DPhil Supervisor**
Department of Zoology | 📍 University of Oxford |

· Surpervised: Dr Irem Sepil and Dr Antica Culina

🏅 GRANTS AND AWARDS

| 2017 | ● | **Daphne Jackson Postdoctoral Fellowship (GBP £82,000)**
Department of Zoology | 📍 University of Oxford |

| 2011 | ● | **NERC Urgency Grant (GBP £60,000)**
Department of Zoology | 📍 University of Oxford |

| 2008 | ● | **Ian Potter Research Grant (AUD $130,000)**
School of Zoology | 📍 University of Tasmania |

| 2007 | **Wildlife Disease Association Doctoral Student Award (Value AUD $5,000)** | |
| | Wildlife Disease Association | 📍 Colorado, USA |

| 2005 | **Australian Wildlife Society Grant (Value $1,500)** | |
| | School of Biological Sciences | 📍 University of Queensland |

| 2005 | **Australian Postgraduate Award ($50,000)** | |
| | School of Biological Sciences | 📍 University of Queensland |

💬 INVITED SEMINARS

| 2018 | **"Wildlife Disease Ecology: from individuals to populations and beyond"** | |
| | Centre National de la Recherche Scientifique | 📍 Montpelier, France |

| 2018 | **"Understanding an infectious cancer"** | |
| | Big Data Institute | 📍 University of Oxford |

| 2011 | **"The curious case of the disappearing devil" (Steve Irwin Memorial Lecture)** | |
| | University of Queensland | 📍 Brisbane, Australia |

| 2011 | **"Disease impacts on wild populations"** | |
| | Zoological Society of London | 📍 London, UK |

👥 PROFESSIONAL SERVICE

| current – 2019 | **Commitee member: BDI Coding Committee** | |
| | Big Data Institute | 📍 University of Oxford |

| 2020 – 2011 | **British Ecological Society member** | |
| | | 📍 London, UK |

| 2019 – 2017 | **Commitee member: Early Career Researcher Network** | |
| | Department of Zoology | 📍 University of Oxford |

🤝 VOLUNTEERING

| 2014 – 2011 | **Volunteer display and event interpreter** | |
| | Oxford Natural History Museum | 📍 Oxford, UK |

| 2014 | **Volunteer science interpreter** | |
| | Big Bang Science Fair | 📍 London, UK |

📰 MEDIA

| 2019 – 2008 | **My research has been reported in these media outlets:** |
| | TV: George Negus at 6:30, Totally Wild, Radio: BBC Oxford, ABC, 4QR, Print: Sydney Morning Herald, The Australian, Sunday Mail |