






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, diligent, and creative.

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
|
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 and regular tasks, and perform statistical analyses.
 - Build data pipelines to import 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 research papers at conferences and meetings.
 - Supervised graduate and postgraduate students.
- 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.

CONTACT

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🐙 [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
|
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.
- 2014

●

Maternity Leave / Full-time Carer

Oxford, UK
- 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
|
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

- 2021

●

Introduction to Text Mining in R (online course)
 Department of Population Health

University of Oxford
- 2019
|
2018

●

Stipendiary Biology Tutor
 St Hilda's College

University of Oxford

 - Subjects taught: Ecology, statistics, epidemiology, conservation, genetics
- 2012
|
2010

●

DPhil Supervisor
 Department of Zoology

University of Oxford

 - Supervised: Dr Irem Sepil and Dr Antica Culina
- 2009
|
2007

●

University Tutor: Ecology, statistics, conservation, practicals
 School of Biological Sciences

University of Queensland



GRANTS AND AWARDS

- 2017

●

Daphne Jackson Postdoctoral Fellowship (GBP £82,000)
 Department of Zoology

University of Oxford
- 2011

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NERC Urgency Grant (GBP £60,000)
 Department of Zoology

University of Oxford
- 2008

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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 📍 Montpellier, 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 ● **Committee member: BDI Coding Committee**
Big Data Institute 📍 University of Oxford
- 2020 | 2011 ● **British Ecological Society member**
📍 London, UK
- 2019 | 2017 ● **Committee 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