



# 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

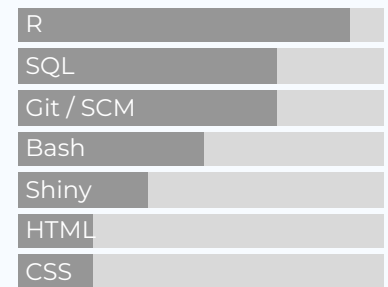
- current  
|  
2019 • **Data Analyst**  
UK Biobank  University of Oxford
  - Provide statistical and analytical expertise to researchers, UK Biobank epidemiologists and database administrators.
  - Develop software and applications to query databases, automate reporting, produce visualisations, and 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.
- 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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☎ (+44) 07716383098  
 [Github](#)  
 [LinkedIn](#)  
 [shellyl.me](http://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  
|  
2011

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**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

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**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

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**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

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**Programming in R with the Tidyverse**  
 Big Data Institute

University of Oxford
  
- 2021

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

University of Oxford
  
- 2019  
|  
2018

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**Stipendiary Biology Tutor**  
 St Hilda's College

University of Oxford

  - Taught ecology, statistics, epidemiology, conservation, genetics



## GRANTS AND AWARDS

- 2017

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**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

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**Wildlife Disease Association Doctoral Student Award (Value AUD \$5,000)**  
 Wildlife Disease Association

Colorado, USA
  
- 2005


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**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  
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2019 • **Committee member: BDI Coding Committee**  
Big Data Institute  University of Oxford

2020  
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2011 • **British Ecological Society member**  
 London, UK

2019  
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2017 • **Committee member: Early Career Researcher Network**  
Department of Zoology  University of Oxford

## VOLUNTEERING

2014  
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2011 • **Volunteer display and event interpreter**  
Oxford Natural History Museum  Oxford, UK

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

## MEDIA

2019  
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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