ELIS WILSON

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EDUCATION

University of Warwick, MSc Statistics   October 2023 - September 2024

Medical statistics, including clinical trials, survival analysis and meta-analysis, design and analysis of experiments, statistical genetics, Monte Carlo methods, supervised learning methods, multivariate statistics.

University of Exeter, BSc. Mathematics (Hons), Upper Second Class   September 2020 - June 2023

Modules covering Bayesian and frequentest inference, statistical modelling, statistical computing, linear algebra, differential equations and mathematical modelling.

KEY SKILLS

Proficiency in data analysis and related software including R, SQL and Python, statistical modelling and analysis, data visualisation including Tableau and PowerBI, report writing, problem solving, teamwork, project-based working.

RESEARCH EXPERIENCE

Investigation into student engagement , University of Warwick   January 2024 - present

- Co-created a project investigating post-COVID student engagement with Dr Martyn Parker (Department of Statistics, University of Warwick) which was driven by my voluntary work with the student-staff liaison committee.
  - Conducted literature and database review of current research on student attendance post-COVID.
  - Co-authored ethics committee application to cover the outreach conducted through the project.
  - Engaged with diverse group of stakeholders - including senior leaders - to shape department policy going forward.
  - Undertaken additional training in ethical research.
  - Underwent training in equality and diversity to ensure research engaged all members of student community.

Methods for graph comparison, University of Exeter   March - April 2023

- Submitted paper on methods for comparing labelled directed graphs with applications to research description frameworks and the Semantic Web.
  - Literature review outlining modern developments in the Semantic Web and resource description frameworks.
  - Researched, implemented and evaluated established techniques for graph comparisons.
  - Developed, implemented and evaluated original techniques for graph comparisons.

Modelling the QBO, University of Exeter   September - December 2022

- Collaborated with other students on a university project investigating, designing and assessing models of the quasi-biennial oscillation, a complex weather phenomenon.
  - Lead R programmer, researching and implementing novel techniques for modelling weather oscillations.
  - Conducted risk assessment and critical path analysis to ensure project was delivered accurately and on time.
  - Co-authored research paper outlining results and presented to senior academics.

EMPLOYMENT & VOLUNTEERING

Research Team member, University of Warwick   February 2024 - present

- Providing support to the WUST project, aiming to create a toolkit to enable students to effectively project manage.
  - Collaborating with large research team of academics and students to generate new resources to support students.
  - Meeting deadlines to action outcomes of project meetings.
  - Facilitating focus groups, including arranging locations, recruiting participants and leading discussions.

Clinical Division intern, Intelligent Ultrasound   July 2023 - September 2023

- Led a research project on Generative Adversarial Networks (GANs) for ultrasound imaging.
  - Utilised Python and PyTorch to adapt existing code for compatibility with the company's architecture.
  - Used data engineering techniques to utilise database of 1.3 million images.
  - Conducted training for multiple GAN models to generate images.
  - Successfully demonstrated proof of concept for integrating GANs with ultrasound imaging.
- Created report on customer engagement with e-learning product.
  - Conducted thorough data cleaning and exploration using pandas to extract valuable insights.
  - Provided feedback to the team, highlighting key points for potential improvements, using data visualisation.

Data assistant, Insights Team, Exeter Students' Guild   November 2022 - June 2023

- Designed and administered student surveys that were distributed to 20,000+ students.
- Analysed survey results in collaboration with other data sources.
- Delivered timely and accurate insights to stakeholders to inform organisation-wide decisions.
- Underwent equality and diversity training to foster an inclusive environment.
- Provided administrative support to full-time staff.

Teaching assistant, University of Exeter   September 2022 - December 2022

- Co-ran support session for first-year mathematics students using the peer-assisted learning technique.
- Provided feedback on how students responded to new methods of teaching.

Treasurer, University of Exeter MathSoc   August 2022 - August 2023

- Organised large events attended by 100+ students.
- Ensured society finances were managed according to Guild policy.
- Met deadlines to allow for smooth running of events.

Bartender, Various companies   September 2021 - November 2022

- Excelled in fast-paced environment requiring constant adaption.
- Worked closely with colleagues to meet tight deadlines.

INTERESTS

Professional: Public engagement with statistics, clinical trials, statistical genetics, improving student engagement.
Personal: Running, Cycling, Reading, Cricket & Rugby.

REFERENCES

Professor David B. Stephenson – Academic tutor, University of Exeter - d.b.stephenson@exeter.ac.uk
Mr Sacha Walton - Software engineering manager, Intelligent Ultrasound - sacha.walton@intelligentultrasound.com
Dr Martyn Parker - Academic tutor, University of Warwick - martyn.parker@warwick.ac.uk