

# Lindsay Lee

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## Skills

**Data analytics:** Data visualization, dashboard development, machine learning, data engineering, survey analysis, software development, item-response theory, regression analysis

**Project management:** Agile development, project planning, communication strategy, documentation development, capacity building

**Programming:** R, Python, SQL, DAX, HTML, CSS, Javascript

**Platforms/Tools:** Power BI, Power Platform, Databricks, RStudio, Git, Azure, Shiny, LaTeX

**Languages:** Spanish, Portuguese, French

## Education

### University of Oxford

MASTER OF PUBLIC POLICY

Oxford, UK

Sept 2015 - Sept 2016

### University of Oxford

MSC IN APPLIED STATISTICS

Oxford, UK

Oct 2014 - Sept 2015

### University of Tennessee

BS IN MATHEMATICS, WITH ADDITIONAL MAJOR IN SPANISH AND MINOR IN PORTUGUESE

Knoxville, TN, USA

Aug 2010 - May 2014

## Awards

- 2019 World Health Organization Director-General Award for Excellence
- 2014 Rhodes Scholarship
- 2014 University of Tennessee Chancellor's Medallion
- 2014 University of Tennessee Torchbearer Award
- 2013 Harry S. Truman Scholarship Finalist
- 2013 City of Knoxville Equity Award
- 2013 Dean of Students Pioneer Award

## Work experience

### St. Jude Children's Research Hospital

Memphis, TN, USA (remote)

LEAD ANALYTICS SOLUTIONS ARCHITECT

August 2022 - present

- Spearheads enterprise-wide analytics strategy and capacity building initiatives, partnering with executive leadership to align technical solutions with institutional goals
- Leads technical training and mentorship for approximately 50 analysts across multiple business units, elevating institutional data literacy and analytical capabilities
- Architects data-driven solutions using Power BI, Power Platform and Databricks, including:
  - an automated and comprehensive report on Power BI activity and access across our tenant;
  - a Power Platform solution for managing the inventory of donated gift cards;
  - a time series model in Databricks for projecting institutional cashflow based on historical financial data
- Helped lead the Analytics Services team's migration to Databricks, establishing best practices for cloud-based data engineering and collaborative analytics development
- Steered the team's adoption of GitHub for version control, providing training and best practices
- Established standardized templates and documentation frameworks, reducing development time and improving code maintainability
- Champions data governance initiatives, implementing policies and procedures that enhanced data quality and security
- Administers enterprise Power BI platform serving 500+ active users and 2000+ reports

## **Embold Health**

Nashville, TN, USA

SENIOR HEALTHCARE DATA ANALYST; TECHNICAL LEAD

April 2020 - July 2022

- Served as the technical lead on Insights Team
- Worked with Sales Team to overhaul process for opportunity analyses with potential clients, eliminating errors from the pre-existing process and shortening timeline to delivery of reports from weeks to days
- Provided Sales Team with necessary analytics to more than double our client base in one year
- Produced data visualizations and insights that fed into nearly every external-facing presentation or deliverable throughout the company
- Led the execution of a new client reporting strategy, in collaboration with Client Engagement and Product Teams
- Built dashboards that enable stakeholders to self-service their routine data analytics questions, building efficiency and enabling developer time to be spent on more complex analyses
- Advised the Director on technical questions and translated complex requests into analytic specifications
- Constantly improved analytics processes, workflows, data model, documentation and data asset management in collaboration with Engineering and DevOps teams
- Trained team members on enterprise analytics workflow and technical skills, and provided code review and feedback on their work

## **World Health Organization (WHO)**

Geneva, Switzerland

TECHNICAL OFFICER

Jan 2017 - April 2020

- Managed the WHO Disability Programme as the only officer in the global organization working on disability issues full time
- Drafted WHO guidance on disability and COVID-19 in collaboration with United Nations stakeholders
- Coordinated and managed WHO Model Disability Survey (MDS), a general population household survey about disability and the needs, barriers and inequalities faced by people with different levels of severity of disability
- Analyzed data from MDS implementations in 13 countries using R
- Built custom tools to increase efficiency and organization of MDS analysis for WHO team and for country partners, including R package (package: whomds, available on CRAN) and Shiny apps
- Traveled to 4 countries (UAE, Philippines, Qatar, Costa Rica) to train statisticians to analyze MDS data and support finalization of reports
- Wrote reports for MDS implementations including policy recommendations
- Wrote scientific publications about MDS analysis
- Supervised team to support disability programme
- Designed MDS communications materials like infographics and presentation templates
- Developed organizational strategy for disability inclusion
- Drafted ethics and grant applications
- Represented WHO in high-level political meetings, such as the United Nations (UN) Committee on the Rights of Persons with Disabilities and UN Economic and Social Council
- Wrote briefings, speeches and social media messages regarding WHO's work on disability for senior management, such as for the 2018 Global Disability Summit and meetings with WHO Member States
- Worked with other UN agencies on inter-agency projects, such as UN Disability Inclusion Strategy, Guidelines on Inclusion of Persons with Disabilities in Humanitarian Action, and Guidelines on Inclusion of Persons with Disabilities in Humanitarian Response Plans
- Coordinated work with other departments, such as Mental Health, Assistive Technology, and Physical Activity
- Coordinated organizational response to UN-wide reviews, such as by the UN Joint Inspection Unit and UN Special Rapporteur on the Rights of Persons with Disabilities

## **World Health Organization (WHO)**

Geneva, Switzerland

INTERN AND CONSULTANT

July 2016 - Dec 2016

- Refactored R syntax for MDS analysis
- Wrote first MDS reports for Chile and Sri Lanka implementations

## **Faculty of Law at University of Oxford**

Oxford, UK

RESEARCH ASSISTANT

May 2015 - Aug. 2016

- Analyzed data for legal projects related to discrepancies in contributory negligence and exemplary damages decisions based on factors such as gender and age
- Provided analyses for paper published in The Modern Law Review (Goudkamp and Nolan 2016)

## **OurWorldInData.org at Institute for New Economic Thinking**

Oxford, UK

QUANTITATIVE SOCIAL SCIENTIST

Apr 2015 - Oct 2015

- Created new content for web publication founded by Dr. Max Roser on the social, economic and political trends of the world

## **International Foundation for Electoral Systems (IFES)**

Washington, DC, USA

YOUTH IN INTERNATIONAL DEVELOPMENT AND AFFAIRS INTERN SPONSORED BY U.S. INTERNATIONAL COUNCIL ON DISABILITIES

May 2014 - July 2014

- Researched discriminatory international law pertaining to the political participation of people with disabilities for ElectionAccess.org, IFES's clearinghouse of information on the subject
- Lobbied for ratification of UN Convention on Rights of Persons with Disabilities to US Senate

## Publications

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- 2024 Estimating disability prevalence in population surveys: an exploratory study using national surveys carried out in Ethiopia, Uganda, Tanzania and USA; Disability and Rehabilitation, <http://dx.doi.org/10.1080/09638288.2024.2441424>
- 2022 WHO Functioning and Disability Disaggregation (FDD11) tool: a reliable approach for disaggregating data by disability; Archives of Public Health, <http://dx.doi.org/10.1186/s13690-022-01001-2>
- 2022 Demographic and environmental factors associated with disability in India, Laos, and Tajikistan: a population-based cross-sectional study; BMC Public Health, <http://dx.doi.org/10.1186/s12889-022-12846-1>
- 2022 Generating comprehensive functioning and disability data worldwide: development process, data analyses strategy and reliability of the WHO and World Bank Model Disability Survey; Archives of Public Health, <http://dx.doi.org/10.1186/s13690-021-00769-z>
- 2021 Measuring functioning and disability using household surveys: metric properties of the brief version of the WHO and World Bank model disability survey; Archives of Public Health, <http://dx.doi.org/10.1186/s13690-021-00654-9>
- 2021 Identifying key environmental barriers experienced by persons with mild, moderate, or severe disability in Bankim Health District, Cameroon: a policy-targeted secondary analysis of data obtained with the World Bank and WHO model disability survey; Archives of Public Health, <http://dx.doi.org/10.1186/s13690-021-00619-y>
- 2021 Response to “Commentary on: The First Global Physical Activity and Sedentary Behavior Guidelines for People Living With Disability”; Journal of Physical Activity and Health, <http://dx.doi.org/10.1123/jpah.2021-0137>
- 2021 The First Global Physical Activity and Sedentary Behavior Guidelines for People Living With Disability; Journal of Physical Activity and Health, <http://dx.doi.org/10.1123/jpah.2020-0629>
- 2020 Measurement of violence against women and disability: protocol for a scoping review.; BMJ open, <https://europepmc.org/articles/PMC7768952>
- 2018 Model disability survey: a pilot study in the North Batinah governorate; Journal of Contemporary Medical Sciences, <http://dx.doi.org/10.22317/jcms.v4i4.489>

## RPackages

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- 2023 whomds (available on CRAN, v1.1.1): Calculate Results from WHO Model Disability Survey Data

## Additional research experience

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### Dynamic time warping for assessment of inter-rater reliability for annotations of wearable camera data

Oxford, UK

UNIVERSITY OF OXFORD

June 2015 - Sept 2015

- Developed new method for measuring inter-rater reliability for image data with a hierarchical annotation structure
- Performed simulation analysis to create benchmark for new inter-rater reliability measurement method
- Submitted as thesis for MSc in Applied Statistics

### Modeling feral cat population dynamics in Knox County, TN

Knoxville, TN, USA

NATIONAL INSTITUTE OF MATHEMATICAL AND BIOLOGICAL SYNTHESIS AT THE UNIVERSITY OF TENNESSEE, KNOXVILLE

May 2011 - May 2014

- Assessed seasonality of feral cat breeding for the purposes of determining the most efficient time of year to focus population spaying efforts
- Submitted as thesis for BS in Mathematics
- Presented at Joint Math Meetings (Boston, USA, Jan 2012) and Society for Industrial Applied Mathematics Southeastern Atlantic Section Conference (Oak Ridge, TN, USA Mar 2013)