

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

- Architects data-driven solutions using Power BI, Power Platform and Databricks, including:
 - a time series model in Databricks and corresponding Power BI report for projecting institutional cashflow based on historical financial data;
 - 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
- Innovates solution delivery by advancing the team's use of R, Python, and machine learning
- Leads technical training and mentorship for analysts across multiple business units, elevating institutional data literacy and analytical capabilities
- Contributes to the generative AI rollout at St. Jude, in particular with respect to use of Copilots across platforms like Power BI, Power Apps, Power Automate, and GitHub
- Facilitated AI training with Microsoft for approx. 40 analysts, data scientists, and developers
- Helped lead the Analytics Services team's migration to Databricks, establishing best practices for collaborative analytics development
- Supports teams to migrate their analytics from local machines to centrally managed platforms, improving maintainability and freeing up their time for innovation
- Steered the team's adoption of GitHub for version control, providing training and best practices
- Establishes standardized templates and documentation frameworks, reducing development time and improving code maintainability
- Builds peer review and certification processes in collaboration with the data governance team, raising the quality of analytics work delivered across the institution
- Redesigned the institution's security model for Power BI, leveraging role-based access control, ensuring that the right people get the right data for the right purpose
- 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 Model Disability Survey (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

- 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

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

Additional research experience

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)