

Lindsay Lee

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Skills

Advanced analytics:	Generative AI, MLOps, predictive modeling, time series forecasting, agent governance, NLP, bias detection, model validation, survey analysis, item-response theory, regression analysis
Data engineering:	Python, R, SQL, DAX, ETL/ELT pipelines, data modeling, gold-layer validation, API integration
Platforms/Tools:	Databricks, Power BI, Power Platform, Git, Azure AI services, Microsoft Fabric
Leadership/Enablement:	Technical mentorship, AI governance frameworks, peer review standards, documentation development, capacity building, cross-functional collaboration, executive communication
Microsoft Certifications:	Azure AI Engineer Associate, Azure Data Scientist, Fabric Analytics Engineer, Power BI Data Analyst
Languages:	Spanish, Portuguese, French

Education

University of Oxford	Oxford, UK
MASTER OF PUBLIC POLICY	Sept 2015 - Sept 2016
University of Oxford	Oxford, UK
MSC IN APPLIED STATISTICS	Oct 2014 - Sept 2015
University of Tennessee	Knoxville, TN, USA
BS IN MATHEMATICS, WITH ADDITIONAL MAJOR IN SPANISH AND MINOR IN PORTUGUESE	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)
PRINCIPAL DATA AND AI SOLUTIONS ARCHITECT	December 2025 - present
<ul style="list-style-type: none">Architects enterprise AI governance framework establishing agent governance protocols, InfoSec visibility standards, and structured approval processes for production AI deployments across clinical and operational domainsContributes to institutional generative AI adoption, evaluating and piloting multiple AI platforms (Power BI Copilot, GitHub Copilot, ChatGPT Enterprise, SJGPT, Gemini) and establishing best practices for responsible useDesigns and deploys production AI solutions including AI-powered OpEx variance analysis for executive reporting	
St. Jude Children's Research Hospital	Memphis, TN, USA (remote)
LEAD ANALYTICS SOLUTIONS ARCHITECT	February 2023 - December 2025
<ul style="list-style-type: none">Developed predictive analytics models including time series cashflow forecasts that process 5+ years of financial data, deployed via Databricks with Power BI integrationHelped lead the Analytics Services team's migration to Databricks, establishing best practices for collaborative analytics developmentEstablished enterprise data quality framework as core member of Data Quality Taskforce, designing institutional policy, gold-layer validation processes and automated quality monitoringTransformed enterprise BI security posture implementing RBAC across 150+ workspaces, eliminating 338 critical vulnerabilities, and establishing zero-trust access protocols for 2000+ reportsEnhanced data access request processes and governance through workflow automation, API-based monitoring solutions, and self-service dashboards enabling users to track permissions and audit access patterns across enterprise analytics platformsCreated peer review and certification standards for analytics products, improving quality across 2000+ reportsFounded Analytics Office Hours program providing weekly technical mentorship to analysts across administrative, clinical and research divisionsLead comprehensive technical upskilling initiatives across multiple business units, including facilitating Microsoft AI training for 40+ analysts and data scientists, delivering git/version control workshops, and onboarding analytics partners into enterprise analytics platforms	

St. Jude Children's Research Hospital

Memphis, TN, USA (remote)

ANALYTICS SOLUTIONS ARCHITECT

August 2022 - February 2023

- Architected enterprise-scale analytics solutions serving 500+ users across clinical, research, and operational domains using Power BI, Power Platform, and cloud services
- Reduced analytics development time by through standardized templates, reusable components, and automated testing frameworks

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)