**Annie Xinyi Luo**

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**Education**

**University of Michigan, Ann Arbor August 2025 – May 2027(Expected)**

Master of Science in Information – Big Data Analytics GPA: 3.93/4.0

* **Relevant Coursework:** Statistics, Data Analysis, Programming in R and Python, Machine Learning

**University of Pittsburgh August 2021 – May 2025**

Bachelor of Science in Health Informatics GPA: 3.95/4.0

* **Honors/Awards: Dean’s List (2021-2025)**
* **Relevant Coursework:** Python, R, and SQL, SPSS, Power BI, Research Methods, HIPAA, EHR Interoperability,

**Professional Experience**

**Aging and Health Research June 2025 – August 2025**

Editorial Assistant Shanghai, CN

* Leveraged bilingual communication skills in English and Chinese to compose and edit research summaries for global digital platforms.
* Managed digital outreach and engagement by launching the journal's Rednote account and managing the WeChat platform.
* Edited and annotated manuscript drafts to ensure clarity and strict alignment with international journal standards

**National Centre for Infectious Diseases June 2025 – August 2025**

Data Analyst Shanghai, CN

* Cleaned and standardized multi-site patient datasets using Excel to ensure data quality and consistency.
* Mapped, validated, and corrected clinical data in REDCap to enhance accuracy and integrity.
* Designed REDCap questionnaires based on patient data to support research and streamline

**THOHT June 2024 – August 2024**

Data Analyst Shanghai, CN

* Extracted health data statistics from pathological research papers and organized them in excel sheet
* Reviewed and sorted professional researchers’ articles into a database for peer review at research conferences
* Researched, compared, and analyzed various treatment plans and presented the most optimal plan to executives

**Eisai February 2024 – June 2024**

Clinical Research Assistant Shanghai, CN

* Applied advanced filtering techniques across academic databases to identify high-integrity medical publications.
* Ensured 100% data consistency by managing a comprehensive research database for accurate record-keeping.
* Synthesized complex scientific findings into instructional guidelines for treatment plans to support data-driven clinical decision-making.

**Project Experience**

**Prenatal Risk Assessment Tool (Fetal Alcohol Spectrum Disorder) September 2025 – December 2025**

Project Lead  Ann Arbor, MI

* Implementing password protection system and local-only data processing to prevent data breaches
* Automated input verification to maintain data consistency and prevent errors caused by missing information
* Translated guidelines into a weighted scoring algorithm and functional data model with one-decimal precision

**Nursing Documentation Optimization & AI-Assisted Care Plans September 2025 – December 2025**

Project Lead  Ann Arbor, MI

* Conducted semi-structured interviews and affinity walls to identify systemic bottlenecks impacting patient care quality
* Proposed an AI-assisted care plan solution to reduce documentation time based on evidence-based literature reviews.
* Designed technical recommendation for workflows that maintains 100% clinician control and decision-making authority

**Healthcare Dashboard for Executive Decision-Making January 2025 – May 2025**

Project Lead  Pittsburgh, PA

* Designed and constructed a healthcare dashboard using Python and draw.io for executive decision-making.
* Utilized SQL and Excel to generate, clean, and load datasets to ensure 100% data integrity.
* Built interactive dashboards with Matplotlib and Plotly to assist leaders in interpreting hospital performance.

**Retrospective Study on Tobacco Use Trends September 2024 – December 2024**

Project Lead  Pittsburgh, PA

* Analyzed 2010–2017 tobacco use trends among U.S. students using a retrospective SPSS study.
* Applied inferential statistical analyses of Wilcoxon-Mann-Whitney tests and one-way ANOVA.

**Skills**

* Technical skills: SQL, Python, R, SPSS, Microsoft Excel, Microsoft PowerPoints, Microsoft Word, Microsoft Outlook
* Personal attributes: Problem solving, Organization, Teamwork, Communication, Project Management,
* Languages competency: Chinese, English