Yinghui Chen

Data Science & Analytics
Charlotte, NC 28270 | helenachin0308@gmail.com | +1979-422-2598 | Green Card Holder | LinkedIn | Portfolio

SUMMARY

Data professional completing an M.S. in Applied Data Science at the University of Michigan (December 2026), with hands-on experience analyzing user data in SQL and Python and leading development of an LLM-powered analysis tool used by 40 analysts. Applies statistical and machine learning methods to business problems, from forecasting nursing home rating declines to analyzing feedback from 50,000+ users.

EDUCATION

UNIVERSITY OF MICHIGAN, Ann Arbor, MI | Master of Applied Data Science *Expected December 2026*

- **Capstone:** Nursing home quality-risk model and recommender. Developing a machine learning model on CMS data to forecast declines in nursing home ratings, and a recommender that ranks homes for families with plain-language reasons.

TEXAS A&M UNIVERSITY, College Station, TX | Master of Landscape Architecture *August 2019*

HARBIN INSTITUTE OF TECHNOLOGY, Harbin, China | Bachelor of Engineering in Urban Planning *May 2016*

PROJECTS

- **Lifestyle Factors and Menstrual Regularity** (GitHub): Linked 26 NHANES survey files for 3,143 women and tested 28 lifestyle and demographic factors with Mann–Whitney and chi-square tests (FDR-corrected) and logistic regression. Showed lifestyle signals are weak (AUC 0.65); a 10pm–midnight bedtime carried 1.7× the odds of regular cycles (95% CI 1.2–2.5).
- **U.S. Mortality Risk Model** (GitHub): Built a 10-year mortality model on 12,418 NHANES adults linked to the National Death Index, benchmarked against an age-only baseline. Exam and lab data added only +0.03 ROC AUC over age alone (0.865 to 0.892, well calibrated); built an explainable Streamlit risk demo.

SKILLS

Data & ML: Python, SQL, R, Excel, Google BigQuery | Machine Learning (Scikit-learn) | A/B Testing | LLM-Powered Product Development
Other: Agile (Jira/Asana/Azure DevOps) | Figma | HTML/CSS | User Research | Stakeholder Communication

PROFESSIONAL EXPERIENCE

HANOVER RESEARCH Remote
Product Development Analyst (Product Owner) *July 2024 – Current*

- Led development of an internal LLM-powered data analysis tool used by 40 analysts, including theme identification and automated analysis summaries, reducing deliverable turnaround time by 38%.
- Led the client portal launch for 1,200+ client organizations from discovery to go-live in 6 months, reaching 95.3% adoption within 1 month of launch.
- Lead one of three workstreams on the survey building tool (6 developers, 1 designer, 50+ requirements), preparing a 2026 pilot launch with 15 pilot clients.

VOICEOUT Remote
Volunteer Product Manager *January 2024 – August 2024*

- Owned the product roadmap for a mental health app, defining 15+ features and leading 5+ prioritization sessions with analysts and C-level stakeholders.

DATACAMP, INC. *(online data science learning platform)* Remote
Content Creator (Assessment Product) *September 2021 – July 2023*

- Leveraged SQL and Python to analyze feedback from 50,000+ users and conducted 16+ interviews, identifying critical pain points and actionable insights that informed targeted product improvements.
- Collaborated cross-functionally on the redesign of the digital assessment platform, increasing exam completion rates by 35%.
- Refined data-related assessments and certifications based on insights from 14 hiring managers, contributing to a 10% increase in employment outcomes for certified users.
- Led an exam content project with 11 data experts, delivering 17 case studies and 1,000+ assessment questions in 10 weeks and saving 20% of the budget by reducing revisions and rework.

PARKERRODRIGUEZ, INC. Alexandria, VA
Landscape Designer *September 2019 – April 2021*

- Redesigned the company website in 4 months using research of 20 local firms, lifting conversion rate 5% within one month of launch.