Xintong Chen
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EDUCATION

University of Cincinnati USA
Ph.D. in Computer Science, GPA: 3.77/4.0 Aug 2025 – Present
University of Southern California USA
M.S. in Applied Economics and Econometrics, GPA: 3.71/4.0 Aug 2021 – May 2023
Kean University & Wenzhou Kean University (Chinese campus of Kean University) USA & China
B.A. in Applied Mathematics, GPA: 3.85/4.0 Aug 2017 – May 2021
Coursework: *Advanced Algorithm, Data Intelligence, Trustworthy AI, Big Data Analysis, Advanced NLP, Probability*

PUBLICATION

Poly2Vec 3D: Encoding 3D Spatial Structures for Deep Learning 2025
Membership Inference Attacks on LLM-based Recommender Systems 2025
Membership Inference Attacks on Recommender System: A Survey 2025

RESEARCH EXPERIENCE

Bias in LLM-based Recommender System Caused by Training Prompts Jan 2026 – Present | USA
- Explore the item bias in recommender system results caused by similarities between training samples and real users.
- Designed new training prompts for different group of users to avoid the prompt bias and get better recommendation.

Membership Inference Attacks on LLM-based Recommender System Aug 2025 – Present | USA
- Investigate user privacy risks in next-generation LLM-based recommender systems.
- Introduce 4 representative privacy attack paradigms: Similarity Attack, Memorization Attack, Inquiry Attack, and Poisoning Attack.
- Propose effective defense strategies to counter all four types of attacks.

Poly2Vec 3D: Encoding 3D Spatial Structures for Deep Learning March 2024 – Sep 2025 | USA
- Applied Gaussian Process Regression and Fourier Transform to model and analyze 10K+ 3D object trajectories with random sizes and irregular time intervals, as well as randomly shaped objects.
- Designed and trained multiple MLP models for distinct tasks: distance regression, cube overlap detection, and overlap detection for randomly shaped objects.
- Incorporated overlap-based binary classification, inter-object angles, and pairwise distances to enable the application of Fourier Transform methods to 3D spatial structures for object interaction detection.

WORK EXPERIENCE

BeyondSoft Consulting, Inc. | *Data Analyst* June 2024 – May 2025 | China
- Analyzed agent performance data, calculating key metrics (case response rates, customer satisfaction) and identifying business insights by queries and Power BI.
- Maintained and optimized relationships for tables, and visualized insights in 4 dashboards with Power BI, delivering clear and impactful reports to stakeholders.
- Collaborated with cross-functional teams, leading the business cases migration from old system to new system in 1 month, rebuilding table relationships and modifying logic to ensure consistent visualizations.

Coders Data | *Data Analyst* Aug 2023 – May 2024 | USA(Remote)
- Utilized SQL queries for optimizing data processing workflows and reducing queries preprocessing time.
- Visualized business insights, including the course length and click rates, to help adjust business strategies and increase return on investment.

Uber (Hong Kong) | *Data Analyst Internship* Feb 2022 – May 2022 | Remote
- Analyzed 16K+ rows of Cab Ride data with Python and SQL, revealing the price trends, travel patterns and fare factors through meticulous data preprocessing.
- Developed predictive models enhancing pricing strategy insight by XGBoost and created dynamic dashboards to help actionable decision-making.