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| **Yijun Lin** |
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| **Education** | |
| 2021 -  2018 - 2021  2015 - 2017  2011 - 2015 | Ph.D., Computer Science, University of Minnesota, Twin Cities, USA  Ph.D., Computer Science, University of Southern California, USA  (Transferred to UMN after Aug. 2021)  M.S., Data Science, University of Southern California, USA  B.S., Information Securities, Tongji University, Shanghai, China | |

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| **Honors & Awards** | |
| 2022-2024 | **UMN DSI-ADC Fellowship** | |
| 2023 | **Third Place, Best Poster Award & Student Travel Award**, SIAM International Conference on Data Mining | |
| 2022 | **First Place, Map Feature Extraction Challenge, AI for Critical Mineral Assessment Competition.** Duan, W., Li, Z., Lin, F., **Lin, Y**., Shrotriya, T., Knoblock, C. A., Chiang, Y.-Y. | |
| 2020 | **Student Travel Award**, IEEE International Conference on Data Mining | |
| 2019 | **Student Travel Award & Excellent Service Award**, IEEE CIC, CogMI, IEEE TPS  **Student Travel Award**, ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems | |
| 2018 | **Student Travel Award**, ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems | |

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| **Publications** |
| Modeling Spatially Varying Physical Dynamics for Spatiotemporal Predictive Learning. **Lin, Y.** and Chiang, Y.-Y. *ACM SIGSPATIAL, 2023 (accepted)*  The mapKurator System: A Complete Pipeline for Extracting and Linking Text from Historical Maps (Demo Paper). Kim, J., Li, Z., **Lin, Y.**, Namgung, M, Jang, L., and Chiang, Y.-Y. *ACM SIGSPATIAL, 2023 (accepted)*  A Semi-Supervised Learning Approach for Abnormal Event Prediction on Large Network Operation Time-Series Data. **Lin, Y.** and Chiang, Y.-Y.*IEEE International Conference on Big Data, 2022*  Building Autocorrelation-Aware Representations for Fine-Scale Spatiotemporal Prediction. **Lin, Y.**, Chiang, Y.-Y., Franklin, M., Eckel, S. P. and Ambite, J. L. *IEEE International Conference on Data Mining, 2020.*  A review of air quality modeling. Karroum, K., **Lin, Y.**, Chiang, Y. Y., Ben Maissa, Y., El Haziti, M., Sokolov, A. and Delbarre, H. *MAPAN, 35(2), 287-300, 2020*  Building Explainable Data Analytics for Location-Dependent Time-Series Data (Vision Paper). Chiang, Y.-Y., **Lin, Y.**, Franklin, M., Eckel, S. P., Ambite, J. L. and Ku, W.-S. *IEEE First International Conference on Cognitive Machine Intelligence, 2019.*  Exploiting spatiotemporal patterns for accurate air quality forecasting using deep learning. **Lin, Y.**, Mago, N., Gao, Y., Li, Y., Chiang, Y.-Y., Shahabi, C. and Ambite, J. L. *Proceedings of the 26th ACM SIGSPATIAL international conference on advances in geographic information systems, 2018.*  Los Angeles Metro Bus Data Analysis Using GPS Trajectory and Schedule Data (Demo Paper). Nguyen, K., Yang, J., **Lin, Y.**, Lin, J., Chiang, Y.-Y. and Shahabi, C. *Proceedings of the 26th ACM SIGSPATIAL international conference on advances in geographic information systems. 2018.*  Mining Public Datasets for Modeling Intra-City PM2.5 Concentrations at a Fine Spatial Resolution. **Lin, Y.**, Chiang, Y.-Y., Pan, F., Stripelis, D., Ambite, J. L., Eckel, S. P. and Habre, R. *Proceedings of the 25th ACM SIGSPATIAL international conference on advances in geographic information systems, 2017.* |

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| **Working Experience** |
| Research Intern, Mentor: **John Krumm**, Microsoft Corporation, May. 2020 - Aug. 2020  Research Programmer, Spatial Sciences Institute (SSI), USC, Nov. 2017 - Aug. 2018 |

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| **Presentations[[1]](#footnote-1)** |
| SynMap: A Synthetic Dataset for Text Spotting in Scanned Historical Maps. **Lin, Y.**, Kim, J., Li, Z., Chiang, Y.-Y. *GeoAI and Deep Learning Symposium: GeoAI for Feature Detection and Recognition, AAG, 2023*  The mapKurator System: Extracting and Linking Text from Large Numbers of Historical Map Scans. Jang, L., Kim, J., Namgung, M., Shrotriya, T., **Lin, Y.**, Li, Z., Chiang, Y.-Y. *Machines Reading Maps Summit, Stanford, 2023*  Guest Speaker, Mining Public Online Data for Fine-Scale Air Quality Prediction, *USC SSCI680 Advanced Spatial Computing, 2019 Fall*  Guest Speaker, Recommendation System and Spatial Data Visualization, Soongsil University Visit, 2019 Summer |

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| **Professional Services** | |
| Teaching Assistant | |
| 2023 Spring  2022 Fall  2022 Spring  2019 - 2021 | UMN Introduction to Data Mining (graduate level)  UMN Practice of Database Systems (undergraduate level)  UMN Spatial AI (graduate level)  USC Foundations and Applications of Data Mining (graduate level) |
| Conference Peer-Review | |
| ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, 2019 - 2022  IEEE International Conference on Tools with Artificial Intelligence, 2017 - 2022  International Workshop on Methods, Models, and Resources for Geospatial Knowledge Graphs and GeoAI, 2021  International Workshop on Health Intelligence, 2021  International Conference on Artificial Intelligence in Medicine, 2020 | |
| Journal Review | |
| GeoInformatica  Atmospheric Pollution Research  Environmental Technology & Innovation (#reviews: 1) | |

1. The presentations with peer-reviewed publications are in the section of Publications. [↑](#footnote-ref-1)