

Hongyuan Mei

CONTACT INFORMATION	Research Assistant Professor Toyota Technological Institute at Chicago 6045 S Kenwood Ave, Chicago, IL 60637 USA	hongyuan@ttic.edu hongyuanmei@gmail.com https://www.hongyuanmei.com
EDUCATION	Johns Hopkins University PhD in Computer Science Adviser: Jason Eisner Thesis: Neural Probabilistic Methods for Event Sequence Modeling The University of Chicago MS in Physical Science Advisers: Mohit Bansal and Matthew R. Walter The University of Chicago MS in Financial Mathematics Huazhong University of Science and Technology BE in Electrical Engineering, with Minor BA in Finance	2016–2021 2015–2016 2015–2016 2012–2013 2008–2012
APPOINTMENTS	Toyota Technological Institute at Chicago Research Assistant Professor University of Chicago Project Advisor in Financial Mathematics Bloomberg LP Research Intern Microsoft Research Research Intern Toyota Technological Institute at Chicago Research Assistant Booth School of Business at The University of Chicago Research Assistant	2021– 2021– 2019 2016 2015–2016 2013–2015
FUNDING	Adobe Research Gift (PI, \$40K)	2022, 2023
SELECTED HONORS AND AWARDS	Bloomberg Data Science PhD Fellowship JHU Jelinek Memorial Award (one student per year) Outstanding Reviewer Awards in ICLR 2021, EMNLP 2020, ICML 2020, ACL 2018 NVIDIA Paper Award, NeurIPS Multimodal Machine Learning Workshop	2018–2021 2020 2015
ADVISING	Current Research Students Songcheng Cai (visitor from Zhejiang University) Peng Li (visitor from Fudan University) Kangrui Wang (UChicago MS) MS Thesis Students Shuo Xie (UChicago MS; now PhD at TTIC) Hongyu Zhao (UChicago MS; now PhD at UMD)	2023– 2023– 2022– 2021–2023 2021–2023

TEACHING	Toyota Technological Institute at Chicago	
	Lecturer in Convex Optimization	2022
	Johns Hopkins University	
	Lecturer in Bloomberg ML Course on Modeling Irregular Time Series	2020
	Guest lecturer in JHU Summer School on Human Language Technology	2018
	Guest lecturer in Information Retrieval and Web Agents	2017
	Teaching assistant in Natural Language Processing	2017

SERVICE	DEI activities	
	- Faculty facilitator for Girls Who Code (2023)	
	Journals	
	- Reviewer for JMLR (2021, 2022)	
	Conferences	
	- Area chair for EMNLP (2022, machine learning), COLING (2024, language modeling)	
	- Reviewer for AAAI (2018), ACL (2017, 2018), COLING (2022), EMNLP (2018, 2019, 2020), ICLR (2017, 2019, 2020, 2021, 2023, 2024), ICML (2019, 2020), NeurIPS (2018, 2019, 2020, 2022, 2023)	
	Workshops	
	- Co-organizer for ACL Workshop on Representation Learning for NLP (RepL4NLP) (2018)	
	- Reviewer for ACL Workshop on Language Grounding for Robotics (RoboNLP) (2017), AAAI Symposium on Natural Communication for Human-Robot Collaboration (NCHRC) (2018)	

PUBLICATIONS	As of October 9, 2023, citations = 1413, h-index = 10, i10-index = 10	
	Google Scholar: https://scholar.google.com/citations?user=g_zaiVIAAAAJ	
	Preprints Not Yet Published	
	2. Statler: State-Maintaining Language Models for Embodied Reasoning Takuma Yoneda, Jiading Fang, Peng Li, Huanyu Zhang, Tianchong Jiang, Shengjie Lin, Ben Picker, David Yunis, <u>Hongyuan Mei</u> , Matthew R. Walter arxiv 2306.17840	
	1. Autoregressive Modeling with Lookahead Attention Li Du, <u>Hongyuan Mei</u> , Jason Eisner arxiv 2305.12272	
	Refereed Publications	
	19. Explicit Planning Helps Language Models in Logical Reasoning Hongyu Zhao, Kangrui Wang, Mo Yu, <u>Hongyuan Mei</u> Proceedings of EMNLP 2023	
	18. Language Models Can Improve Event Prediction by Few-Shot Abductive Reasoning Xiaoming Shi, Siqiao Xue, Kangrui Wang, Fan Zhou, James Zhang, Jun Zhou, Chenhao Tan, <u>Hongyuan Mei</u> Proceedings of NeurIPS 2023	
	17. Robustness of Learning from Task Instructions Jiasheng Gu, Hongyu Zhao, Hanzi Xu, Liangyu Nie, <u>Hongyuan Mei</u> , Wenpeng Yin Findings of ACL 2023	
	16. Continuous-Time Decision Transformer for Healthcare Applications Zhiyue Zhang, <u>Hongyuan Mei</u> , Yanxun Xu	

Proceedings of AISTATS 2023

15. [Bellman Meets Hawkes: Model-Based Reinforcement Learning via Temporal Point Processes](#)
Chao Qu, Xiaoyu Tan, Siqiao Xue, Xiaoming Shi, James Zhang, Hongyuan Mei
Proceedings of AAAI 2023
14. [Hidden State Variability of Pretrained Language Models Can Guide Computation Reduction for Transfer Learning](#)
Shuo Xie, Jiahao Qiu, Ankita Pasad, Li Du, Qing Qu, Hongyuan Mei
Findings of EMNLP 2022
13. [Tiny-Attention Adapter: Contexts Are More Important Than the Number of Parameters](#)
Hongyu Zhao, Hao Tan, Hongyuan Mei
Proceedings of EMNLP 2022
12. [HYPRO: A Hybridly Normalized Probabilistic Model for Long-Horizon Prediction of Event Sequences](#)
Siqiao Xue, Xiaoming Shi, James Y Zhang, Hongyuan Mei
Proceedings of NeurIPS 2022
11. [Transformer Embeddings of Irregularly Spaced Events and Their Participants](#)
Chenghao Yang, Hongyuan Mei, Jason Eisner
Proceedings of ICLR 2022
10. [Personalized Dynamic Treatment Regimes in Continuous Time: A Bayesian Joint Model for Optimizing Clinical Decisions with Timing](#)
William Hua, Hongyuan Mei, Sarah Zohar, Magali Giral, Yanxun Xu
Journal of Bayesian Analysis (Vol. 17, NO. 3, 2022)
International Biometric Society ENAR Distinguished Student Paper Award
9. [Noise-Contrastive Estimation for Multivariate Point Processes](#)
Hongyuan Mei, Tom Wan, Jason Eisner
Proceedings of NeurIPS 2020
8. [Neural Datalog Through Time: Informed Temporal Modeling via Logical Specification](#)
Hongyuan Mei, Guanghui Qin, Minjie Xu, Jason Eisner
Proceedings of ICML 2020
7. [Imputing Missing Events in Continuous-Time Event Streams](#)
Hongyuan Mei, Guanghui Qin, Jason Eisner
Proceedings of ICML 2019
6. [On the Idiosyncrasies of the Mandarin Chinese Classifier System](#)
Shijia Liu, Hongyuan Mei, Adina Williams, Ryan Cotterell
Proceedings of NAACL 2019
5. [Halo: Learning Semantics-Aware Representations for Cross-Lingual Information Extraction](#)
Hongyuan Mei, Sheng Zhang, Kevin Duh, Benjamin Van Durme
Proceedings of *SEM 2018
4. [The Neural Hawkes Process: A Neurally Self-Modulating Multivariate Point Process](#)
Hongyuan Mei, Jason Eisner
Proceedings of NeurIPS 2017
3. [Coherent Dialogue with Attention-based Language Models](#)
Hongyuan Mei, Mohit Bansal, Matthew R. Walter
Proceedings of AAAI 2017

2. [What to talk about and how? Selective Generation using LSTMs with Coarse-to-Fine Alignment](#)
Hongyuan Mei, Mohit Bansal, Matthew R. Walter
Proceedings of NAACL 2016
1. [Listen, Attend, and Walk: Neural Mapping of Navigational Instructions to Action Sequences](#)
Hongyuan Mei, Mohit Bansal, Matthew R. Walter
Proceedings of AAAI 2016
NVIDIA Paper Award in NeurIPS 2015 Multimodal Machine Learning workshop