Fei Liu

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RESEARCH INTERESTS

Natural language processing, large language models, reasoning and planning, natural language generation, deep learning, social media analytics, information extraction, reinforcement learning, artificial intelligence

EDUCATIONAL BACKGROUND

Postdoctoral Fellow   2013–2015
Carnegie Mellon University, Pittsburgh, Pennsylvania
Advisors: Noah A. Smith and Norman Sadeh

Ph.D. in Computer Science   2007–2011
University of Texas at Dallas, Richardson, Texas
Advisor: Yang Liu. Committee members: Carlos Busso, Vincent Ng and Sanda Harabagiu

B.S./M.S. in Computer Science   2000–2007
Fudan University, Shanghai
Advisors: Xuanjing Huang and Lide Wu

EMPLOYMENT HISTORY

Associate Professor of Computer Science
Emory University, Atlanta, Georgia   September 2022–Present

Leading a research team to advance natural language understanding and generation by developing innovative architectures, training methodologies, and robust evaluation metrics for large language models [1][3][10].

Associate Professor
University of Central Florida, Orlando, Florida   August 2015–August 2022

Conducted extensive research on summarization technology, harnessing the power of deep neural networks to produce informative, concise, and accurate summaries from a massive amount of textual data, effectively combating information overload [32][39][40][41][42].

Senior Research Scientist
BOSCH Research and Technology Center, Palo Alto, California   January 2013–November 2013

Designed and implemented deep natural language understanding modules for in-car applications, concentrating on natural language interaction, spoken language understanding, summarization [56][63], social media analytics [64], and the development of advanced machine learning systems in these domains.

Research Scientist
BOSCH Research and Technology Center, Palo Alto, California   May 2011–December 2012

Pioneered a text normalization system that converts non-standard English (such as 'tmrw' on social media) into its standard form [65]. Developed cutting-edge systems for text normalization and event summarization, allowing drivers to listen to tweets and trending news through text-to-speech (TTS) technology [62][66].

HONORS AND AWARDS

Senior Area Chair Highlights (Awarded to the top 1% of over 8,000 paper submissions at ACL), 2025
Best Area Chair Award at the Conference on Empirical Methods in Natural Language Proc. (EMNLP), 2023
NSF Faculty Early Career Development (CAREER) Award, 2022
Amazon AWS Machine Learning Research Award, 2020
Area Chair Favorite Paper at the 27th Intl. Conference on Computational Linguistics (COLING), 2018
Best Paper Finalist at the 25th International World Wide Web Conference (WWW), 2016
Invited to participate in **MIT Rising Stars in EECS** (An Academic Career Workshop for nearly 60 top
EECS scholars in academia), 2015

SELECTED PUBLICATIONS

Citation Statistics: h-index 42, i10-index 71, citations ≥6,000, according to Google Scholar (09/2025).

[1] Hui Wei, Zihao Zhang, Shenghua He, Tian Xia, Shijia Pan and Fei Liu. "PlanGenLLMs: A Modern Survey of LLM Planning Capabilities.." In *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics* (**ACL**), pp. 19497–19521, 2025. **Senior Area Chair Highlights (Awarded to the top 1% of over 8,000 paper submissions)**.

[2] Hui Wei, Shenghua He, Tian Xia, Fei Liu, Andy Wong, Jingyang Lin, Mei Han. "Systematic Evaluation of LLM-as-a-Judge in LLM Alignment Tasks: Explainable Metrics and Diverse Prompt Templates." In *Proceedings of the Building Trust in LLMs and LLM Applications Workshop* at **ICLR**, 2025.

[3] Yebowen Hu, Xiaoyang Wang, Wenlin Yao, Yiming Lu, Daoan Zhang, Hassan Foroosh, Dong Yu, Fei Liu. "DeFine: Decision-Making with Analogical Reasoning over Factor Profiles." In *Proceedings of the 63rd Annual Meeting of the Assoc. for Computational Linguistics* (**ACL**), Findings, 2025.

[4] Yiming Lu, Yebowen Hu, Hassan Foroosh, Wei Jin and Fei Liu. "STRUX: An LLM for Decision-Making with Structured Explanations." In *Proceedings of the 2025 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies* (**NAACL**), pp. 131–141, 2025. Acceptance rate: 719/3185 = 22%

[5] Kenan Jiang, Li Xiong and Fei Liu. "HARBOR: Exploring Persona Dynamics in Multi-Agent Competition." *arXiv preprint arXiv:2502.12149*, 2025.

[6] Yebowen Hu, Kaiqiang Song, Sangwoo Cho, Xiaoyang Wang, Wenlin Yao, Hassan Foroosh, Dong Yu and Fei Liu. "When Reasoning Meets Information Aggregation: A Case Study with Sports Narratives." In *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing* (**EMNLP**), pp. 4293–4308, 2024. Acceptance rate: 1271/6105 = 20.8%

[7] Jiangshu Du, Yibo Wang, Wenting Zhao, Zhongfen Deng, Shuaiqi Liu, Renze Lou, Henry Peng Zou, Pranav Narayanan Venkit, Nan Zhang, Mukund Srinath, Haoran Ranran Zhang, Vipul Gupta, Yinghui Li, Tao Li, Fei Wang, Qin Liu, Tianlin Liu, Pengzhi Gao, Congying Xia, Chen Xing, Jiayang Cheng, Zhaowei Wang, Ying Su, Raj Sanjay Shah, Ruohao Guo, Jing Gu, Haoran Li, Kangda Wei, Zihao Wang, Lu Cheng, Surangika Ranathunga, Meng Fang, Jie Fu, Fei Liu, Ruihong Huang, Eduardo Blanco, Yixin Cao, Rui Zhang, Philip S. Yu, Wenpeng Yin. "LLMs Assist NLP Researchers: Critique Paper (Meta-)Reviewing." In *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing* (**EMNLP**), pp. 5081–5099, 2024. Acceptance rate: 1271/6105 = 20.8%

[8] Liyan Xu, Zhenlin Su, Mo Yu, Jin Xu, Jinho D. Choi, Jie Zhou and Fei Liu "Identifying Factual Inconsistencies in Summaries: Grounding LLM Inference via Task Taxonomy." In *Proceedings of*

the 2024 Conference on Empirical Methods in Natural Language Processing (**EMNLP**), Findings, pp. 14626–14641, 2024. Findings acceptance rate: 1029/6105 = 16.9%

[9] Yebowen Hu, Kaiqiang Song, Sangwoo Cho, Xiaoyang Wang, Hassan Foroosh, Dong Yu and Fei Liu. "SportsMetrics: Blending Text and Numerical Data to Understand Information Fusion in LLMs." In *Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics* (**ACL**), pp. 267–278, 2024. Acceptance rate: 940/4407 = 21.3%

[10] Yiwei Qin, Kaiqiang Song, Yebowen Hu, Wenlin Yao, Sangwoo Cho, Xiaoyang Wang, Xuansheng Wu, Fei Liu, Pengfei Liu and Dong Yu. "InFoBench: Evaluating Instruction Following Ability in Large Language Models." In *Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics* (**ACL**), Findings, pp. 13025–13048, 2024. Findings acceptance rate: 975/4407 = 22.1%

[11] Yikun Wang, Rui Zheng, Haoming Li, Qi Zhang, Tao Gui and Fei Liu. "Rescue: Ranking LLM Responses with Partial Ordering to Improve Response Generation." In *Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics* (**ACL**), Student Research Workshop, pp. 365–376, 2024.

[12] Yebowen Hu, Kaiqiang Song, Sangwoo Cho, Xiaoyang Wang, Hassan Foroosh and Fei Liu. "DecipherPref: Analyzing Influential Factors in Human Preference Judgments via GPT-4." In *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing* (**EMNLP**), pp. 8344–8357, 2023. Acceptance rate: 1047/4909 = 21.3%

[13] Yebowen Hu, Tim Ganter, Hanieh Deilamsalehy, Franck Dernoncourt, Hassan Foroosh and Fei Liu. "MeetingBank: A Benchmark Dataset for Meeting Summarization." In *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics* (**ACL**), pp. 16409–16423, 2023. Acceptance rate: 1074/4864 = 22.1%

[14] Pengshan Cai, Kaiqiang Song, Sangwoo Cho, Hongwei Wang, Xiaoyang Wang, Hong Yu, Fei Liu and Dong Yu. "Generating User-Engaging News Headlines." In *Proc. of the 61st Annual Meeting of the Association for Comp. Linguistics* (**ACL**), pp. 3265–3280, 2023. Acceptance rate: 1074/4864 = 22.1%

[15] Sangwoo Cho, Kaiqiang Song, Xiaoyang Wang, Fei Liu, Dong Yu. "Toward Unifying Text Segmentation and Long Document Summarization." In *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing* (**EMNLP**), pp. 106–118, 2022. Acceptance rate: 829/4190 = 19.8%

[16] Pengshan Cai, Fei Liu, Adarsha Bajracharya, Weisong Liu, Dan Berlowitz, Joe Sills, Alok Kapoor, Richeek Pradhan, David Levy and Hong Yu. "Generation of Patient After-Visit Summaries to Support Physicians." In *Proceedings of the 29th International Conference on Computational Linguistics* (**COLING**), 2022. Acceptance rate: 634/2026 = 31.3%

[17] Pengshan Cai, Mo Yu, Fei Liu and Hong Yu. "Generating Coherent Narratives with Subtopic Planning to Answer How-to Questions." In *Proceedings of the 2nd Workshop on Natural Language Generation, Evaluation, and Metrics (GEM)* at **EMNLP**, pp.26–42, 2022.

[18] Kaiqiang Song, Chen Li, Xiaoyang Wang, Dong Yu and Fei Liu. "Towards Abstractive Grounded Summarization of Podcast Transcripts." In *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics* (**ACL**), 2022. Acceptance rate: 701/3378 = 20.8%

[19] Pengshan Cai, Hui Wan, Fei Liu, Mo Yu, Hong Yu and Sachindra Joshi. "Learning as Conversation: Dialogue Systems Reinforced for Information Acquisition." In *Proceedings of the 2022 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies* (**NAACL**), 2022. Acceptance rate: 442/2103 = 21%.

[20] Sangwoo Cho, Franck Dernoncourt, Tim Ganter, Trung Bui, Nedim Lipka, Walter Chang, Hailin Jin,

Jonathan Brandt, Hassan Foroosh and Fei Liu. "StreamHover: Livestream Transcript Summarization and Annotation." In *Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing* (**EMNLP**), pp. 6457–6474, 2021. Acceptance rate: 840/3600 = 23.3%.

[21] Shen Yan, Kaiqiang Song, Fei Liu and Mi Zhang. "CATE: Computation-aware Neural Architecture Encoding with Transformers." In *Proceedings of the Thirty-eighth International Conference on Machine Learning* (**ICML**), 2021. [Oral Presentation] Acceptance rate: 1184/5513 = 21.5%.

[22] Kaiqiang Song, Bingqing Wang, Zhe Feng and Fei Liu. "A New Approach to Overgenerating and Scoring Abstractive Summaries." In *Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies* (**NAACL**), pp. 1392–1404, 2021. [Oral Presentation] Acceptance rate: 477/1797 = 26.5%.

[23] Jia Jin Koay, Alexander Roustai, Xiaojin Dai and Fei Liu. "A Sliding-Window Approach to Automatic Creation of Meeting Minutes." In *Proceedings of the 2021 Conf. of the North American Chapter of the Association for Computational Linguistics* (**NAACL**), Student Research Workshop, pp. 68–75, 2021.

[24] Logan Lebanoff, Bingqing Wang, Zhe Feng and Fei Liu. "Modeling Endorsement for Multi-Document Abstractive Summarization." In *Proceedings of the Third Workshop on New Frontiers in Summarization* at **EMNLP**, pp. 119–130, 2021. [Oral Presentation]

[25] Logan Lebanoff, Charles Newton, Victor Hung, Beth Atkinson, John Killilea and Fei Liu. "Semantic Parsing of Brief and Multi-Intent Natural Language Utterances." In *Proceedings of the Second Workshop on Domain Adaptation for NLP* at **EACL**, pp. 255–262, 2021. [Oral Presentation]

[26] Logan Lebanoff, Franck Dernoncourt, Doo Soon Kim, Lidan Wang, Walter Chang, Fei Liu. "Learning to Fuse Sentences with Transformers for Summarization." In *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing* (**EMNLP**), pp. 4136–4142, 2020. Acceptance rate: 752/3359 = 22.4%.

[27] Sangwoo Cho, Kaiqiang Song, Chen Li, Dong Yu, Hassan Foroosh and Fei Liu. "Better Highlighting: Creating Sub-Sentence Summary Highlights." In *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing* (**EMNLP**), 2020. Acceptance rate: 752/3359 = 22.4%.

[28] Kaiqiang Song, Chen Li, Xiaoyang Wang, Dong Yu and Fei Liu. "Automatic Summarization of Open-Domain Podcast Episodes." In *Proceedings of the 29th Text REtrieval Conference* (**TREC**), 2020. **Won second place in the TREC 2020 Podcast Challenge**.

[29] Jia Jin Koay, Alexander Roustai, Xiaojin Dai, Dillon Burns, Alec Kerrigan, and Fei Liu. "How Domain Terminology Affects Meeting Summarization Performance." In *Proceedings of the 28th Intl. Conf. on Comp. Linguistics* (**COLING**), pp. 5689–5695, 2020. Acceptance rate: 644/1956 = 32.9%.

[30] Logan Lebanoff, Franck Dernoncourt, Doo Soon Kim, Walter Chang and Fei Liu. "A Cascade Approach to Neural Abstractive Summarization with Content Selection and Fusion." In *Proceedings of the Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics* (**AACL**), pp. 529–535, 2020. [Oral Presentation] Acceptance rate: 106/375 = 28.3%.

[31] Logan Lebanoff, John Muchovej, Franck Dernoncourt, Doo Soon Kim, Lidan Wang, Walter Chang and Fei Liu. "Understanding Points of Correspondence between Sentences for Abstractive Summarization." In *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics* (**ACL**), Student Research Workshop, Seattle, WA, pp. 191–198, 2020.

[32] Kaiqiang Song, Bingqing Wang, Zhe Feng, Liu Ren and Fei Liu. "Controlling the Amount of Verbatim Copying in Abstractive Summarization." In *Proceedings of the Thirty-Fourth AAAI Conference on Artificial Intelligence* (**AAAI**), New York City, NY, Vol. 34, No. 05, pp. 8902–8909, 2020. [Spotlight

Presentation] Acceptance rate: 1591/7737 = 20.6%.

[33] Kaiqiang Song, Logan Lebanoff, Qipeng Guo, Xipeng Qiu, Xiangyang Xue, Chen Li, Dong Yu and Fei Liu. "Joint Parsing and Generation for Abstractive Summarization." In *Proceedings of the Thirty-Fourth AAAI Conference on Artificial Intelligence* (**AAAI**), New York City, NY, Vol. 34, No. 05, pp. 8894–8901, 2020. [Spotlight Presentation] Acceptance rate: 1591/7737 = 20.6%.

[34] Sangwoo Cho, Muhammad Hasan Maqbool, Fei Liu and Hassan Foroosh. "Self-Attention Network for Skeleton-based Human Action Recognition." In *Proceedings of the 2020 IEEE Winter Applications of Computer Vision Conference* (**WACV**), pp. 635–644, 2020. Acceptance rate: 379/1096 = 34.5%.

[35] Wei Zhao, Maxime Peyrard, Fei Liu, Yang Gao, Christian M. Meyer and Steffen Eger. "MoverScore: Text Generation Evaluating with Contextualized Embeddings and Earth Mover Distance." In *Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing* (**EMNLP**), Hong Kong, China, pp. 563–578, 2019. [Oral Presentation] Acceptance rate: 683/2876 = 23.7%.

[36] Sangwoo Cho, Chen Li, Dong Yu, Hassan Foroosh and Fei Liu. "Multi-Document Summarization with Determinantal Point Processes and Contextualized Representations." In *Proceedings of the 2nd Workshop on New Frontiers in Summarization* at **EMNLP**, Hong Kong, China, pp. 98–103, 2019.

[37] Logan Lebanoff, John Muchovej, Franck Dernoncourt, Doo Soon Kim, Seokhwan Kim, Walter Chang and Fei Liu. "Analyzing Sentence Fusion in Abstractive Summarization." In *Proceedings of the 2nd Workshop on New Frontiers in Summarization* at **EMNLP**, Hong Kong, China, pp. 104–110, 2019.

[38] Kristjan Arumae, Parminder Bhatia and Fei Liu "Towards Annotating and Creating Sub-Sentence Summary Highlights." In *Proceedings of the 2nd Workshop on New Frontiers in Summarization* at **EMNLP**, Hong Kong, China, pp. 64–69, 2019.

[39] Logan Lebanoff, Kaiqiang Song, Franck Dernoncourt, Doo Soon Kim, Seokhwan Kim, Walter Chang and Fei Liu. "Scoring Sentence Singletons and Pairs for Abstractive Summarization." In *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics* (**ACL**), Florence, Italy, pp. 2175–2189, 2019. Acceptance rate: 660/2905 = 22.7%.

[40] Sangwoo Cho, Logan Lebanoff, Hassan Foroosh and Fei Liu. "Improving the Similarity Measure of Determinantal Point Processes for Extractive Multi-Document Summarization." In *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics* (**ACL**), Florence, Italy, pp. 1027–1038, 2019. [Oral Presentation] Acceptance rate: 660/2905 = 22.7%.

[41] Kristjan Arumae and Fei Liu. "Guiding Extractive Summarization with Question-Answering Rewards." In *Proceedings of the 2019 Annual Conf. of the North American Chapter of the Association for Computational Linguistics* (**NAACL**), Minneapolis, Minnesota, pp. 2566–2577, 2019. [Oral Presentation] Acceptance rate: 423/1733 = 24.4%.

[42] Logan Lebanoff, Kaiqiang Song and Fei Liu. "Adapting the Neural Encoder-Decoder Framework from Single to Multi-Document Summarization." In *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing* (**EMNLP**), Brussels, Belgium, pp. 4131–4141, 2018. Acceptance rate: 351/1376=25.5%.

[43] Logan Lebanoff and Fei Liu. "Automatic Detection of Vague Words and Sentences in Privacy Policies." In *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing* (**EMNLP**), Brussels, Belgium, pp. 3508–3517, 2018. Acceptance rate: 351/1376=25.5%.

[44] Kexin Liao,[S] Logan Lebanoff[S] and Fei Liu. "Abstract Meaning Representation for Multi-Document Summarization." In *Proceedings of the 27th International Conference on Computational Linguistics*,

Santa Fe, New-Mexico, pp. 1178–1190, 2018. [Oral Presentation]
Area Chair Favorite Paper, Acceptance rate: 44/888=5%.

[45] Kaiqiang Song and Fei Liu. "Structure-Infused Copy Mechanisms for Abstractive Summarization." In *Proceedings of the 27th International Conference on Computational Linguistics* (**COLING**), Santa Fe, New-Mexico, pp. 1717–1729, 2018. [Oral Presentation] Acceptance rate: 331/888=37%.

[46] Kristjan Arumae and Fei Liu. "Reinforced Extractive Summarization with Question-Focused Rewards." In *Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics (ACL), Student Research Workshop*, Melbourne, Australia, pp. 105–111, 2018.

[47] Yanshan Wang, Sijia Liu, Majid Rastegar-Mojarad, Liwei Wang, Feichen Shen, Fei Liu, Hongfang Liu. "Dependency and AMR Embeddings for Drug-Drug Interaction Extraction from Biomedical Literature." In *Proceedings of the 8th ACM International Conference on Bioinformatics, Computational Biology,and Health Informatics* (**ACM-BCB**), Boston, Massachusetts, pp. 36–43, 2017.

[48] Kristjan Arumae, Guo-Jun Qi and Fei Liu. "A Study of Question Effectiveness Using Reddit 'Ask Me Anything' Threads." In *Proceedings of the 30th Florida Artificial Intelligence Research Society Conference* (**FLAIRS**), Marco Island, Florida, pp. 26–31, 2017.

[49] Sansiri Tarnpradab, Fei Liu and Kien Hua. "Toward Extractive Summarization of Online Forum Discussions via Hierarchical Attention Networks." In *Proceedings of the 30th Florida Artificial Intelligence Research Society Conference* (**FLAIRS**), Marco Island, Florida, pp. 288–292, 2017.

[50] Shomir Wilson, Florian Schaub, Rohan Ramanath, Norman Sadeh, Fei Liu, Noah A. Smith, and Frederick Liu. "Crowdsourcing Annotations for Websites' Privacy Policies: Can It Really Work?" In *Proceedings of the 25th International World Wide Web Conference* (**WWW**), Montreal, Canada, pp. 133–143, 2016. [Oral Presentation] **Best Paper Finalist**, Acceptance rate: 5/727=0.7%.

[51] Wencan Luo, Fei Liu, Zitao Liu and Diane Litman. "Automatic Summarization of Student Course Feedback." In *Proceedings of the 15th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies* (**NAACL**), San Diego, California, pp. 80–85, 2016. [Oral Presentation] Acceptance rate: 182/680=27%.

[52] Wencan Luo, Fei Liu and Diane Litman. "An Improved Phrase-based Approach to Annotating and Summarizing Student Course Responses." In *Proceedings of the 26th International Conference on Computational Linguistics* (**COLING**), Osaka, Japan, pp. 53–63, 2016. [Oral Presentation] Acceptance rate: 337/1039=32.4%.

[53] Fei Liu, Nicole Fella and Kexin Liao. "Modeling Language Vagueness in Privacy Policies using Deep Neural Networks." In *Proceedings of the AAAI 2016 Fall Symposium on Privacy and Language Technologies*, Washington, D.C., pp. 257–263, 2016. [Oral Presentation]

[54] Dani Yogatama, Fei Liu and Noah A. Smith. "Extractive Summarization by Maximizing Semantic Volume". In *Proceedings of the 2015 Conference on Empirical Methods on Natural Language Processing* (**EMNLP**), Lisboa, Portugal, pp. 1961–1966, 2015. Acceptance rate: 312/1300=24%.

[55] Fei Liu, Jeffrey Flanigan, Sam Thomson, Norman Sadeh and Noah A. Smith. "Toward Abstractive Summarization Using Semantic Representations." In *Proceedings of the North American Chapter of the Association for Computational Linguistics* (**NAACL**), Denver, Colorado, pp. 1077–1086, 2015. [Oral Presentation] Acceptance rate: 186/714=26%.

[56] Chen Li, Yang Liu, Fei Liu, Lin Zhao and Fuliang Weng. "Improving Multi-document Summarization by Sentence Compression based on Expanded Constituent Parse Tree." In *Proceedings of the 2014 Conference on Empirical Methods on Natural Language Processing* (**EMNLP**), Doha, Qatar, pp.

691–701, 2014. Acceptance rate: 225/790=28%.

[57] Fei Liu, Rohan Ramanath, Norman Sadeh and Noah A. Smith. "A Step Towards Usable Privacy Policy: Automatic Alignment of Privacy Statements." In *Proceedings of the 25th International Conference on Computational Linguistics* (**COLING**), Dublin, Ireland, pp. 884–894, 2014. [Oral Presentation] Acceptance rate: 217/705=31%.

[58] Rohan Ramanath, Fei Liu, Norman Sadeh and Noah A. Smith. "Unsupervised Alignment of Privacy Policies using Hidden Markov Models." In *Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics* (**ACL**), Baltimore, Maryland, pp. 605–610, 2014. Acceptance rate: 285/1123=25%.

[59] Joel R. Reidenberg, Travis Breaux, Lorrie Faith Cranor, Brian French, Amanda Grannis, James T. Graves, Fei Liu, Aleecia M. McDonald, Thomas B. Norton, Rohan Ramanath, N. Cameron Russell, Norman Sadeh, and Florian Schaub. "Disagreeable Privacy Policies: Mismatches between Meaning and Users' Understanding." In *Proceedings of 2014 TPRC: 42nd Research Conference on Communication, Information and Internet Policy* (**TPRC**), Arlington, Virginia, 2014.

[60] Rohan Ramanath, Florian Schaub, Shomir Wilson, Fei Liu, Norman Sadeh and Noah A Smith. "Identifying Relevant Text Fragments to Help Crowdsource Privacy Policy Annotations." In *Proceedings of the Second AAAI Conference on Human Computation and Crowdsourcing* (**HCOMP**), Pittsburgh, Pennsylvania, pp. 54–55, 2014

[61] Norman Sadeh, Alessandro Acquisti, Travis D. Breaux, Lorrie Faith Cranor, Aleecia M. McDonald, Joel Reidenberg, Noah A Smith, Fei Liu, N. Cameron Russell, Florian Schaub, Shomir Wilson, James T. Graves, Pedro Giovanni Leon, Rohan Ramanath and Ashwini Rao. "Towards Usable Privacy Policies: Semi-automatically Extracting Data Practices From Websites' Privacy Policies." In *Symposium on Usable Privacy and Security* (**SOUPS**), Menlo Park, California, 2014.

[62] Chao Shen, Fei Liu, Fuliang Weng, and Tao Li. "A Participant-based Approach for Event Summarization using Twitter Streams." In *Proceedings of the North American Chapter of the Association for Computational Linguistics* (**NAACL**), Atlanta, Georgia, pp. 1152–1162, 2013. [Oral Presentation] Acceptance rate: 146/455=32%.

[63] Chen Li, Fei Liu, Fuliang Weng and Yang Liu, "Document Summarization via Guided Sentence Compression." In *Proceedings of the 2013 Conference on Empirical Methods in Natural Language Processing* (**EMNLP**), Seattle, Washington, pp. 490–500, 2013. Acceptance rate: 205/772=27%.

[64] Fei Liu, Fuliang Weng and Xiao Jiang. "A Broad-coverage Normalization System for Social Media Language." In *Proceedings of the 50th Annual Meeting of the Association for Computational Linguistics* (**ACL**), Jeju Island, South Korea, pp. 1035–1044, 2012. Acceptance rate: 187/940=20%.

[65] Fei Liu, Fuliang Weng, Bingqing Wang, and Yang Liu, "Insertion, Deletion, or Substitution? Normalizing Text Messages without Pre-categorization nor Supervision." In *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics* (**ACL**), Portland, Oregon, pp. 71–76, 2011. [Oral Presentation] Acceptance rate: 292/1146=25%.

[66] Fei Liu, Yang Liu and Fuliang Weng. "Why is 'SXSW' Trending? Exploring Multiple Text Sources for Twitter Topic Summarization." In *Proceedings of the ACL Workshop on Language and Social Media*, Portland, Oregon, pp. 66–75, 2011.

[67] Fei Liu and Yang Liu. "Exploring Speaker Characteristics for Meeting Summarization." In *Proceedings of the 11th Annual Conference of the International Speech Communication Association* (**INTERSPEECH**), Makuhari, Japan, pp. 1–4, 2010.

[68] Yang Liu, Shasha Xie and Fei Liu. "Using N-best Recognition Output for Extractive Summarization and Keyword Extraction in Meeting Speech." In *Proceedings of the 2010 IEEE International Conference on Acoustics, Speech and Signal Processing* (**ICASSP**), Dallas, Texas, March 2010.

[69] Fei Liu and Yang Liu. "Using Spoken Utterance Compression for Meeting Summarization: A Pilot Study." In *Proceedings of the 2010 IEEE Workshop on Spoken Language Technology* (**IEEE SLT**), Berkeley, California, pp. 37–42, 2010.

[70] Fei Liu and Yang Liu. "From Extractive to Abstractive Meeting Summaries: Can It be Done by Sentence Compression?" In *Proceedings of the 47th Annual Mtg. of the Association for Computational Linguistics* (**ACL**), Singapore, pp. 261–264, 2009. [Oral Presentation] Acceptance rate: 214/925=23%.

Patents

[71] Fuliang Weng, Xu Kui, Fei Liu, Lin Zhao, Zhe Feng and Zhongnan Shen. "System And Method For Dialog-Enabled Context-Dependent and User-Centric Content Presentation." Applications US15/104,695, EP14872078.2A, CN201480076121.2A, PCT/US2014/069692. Filed by Robert Bosch LLC, December 2014. US 10,209,853 B2. **Granted**, February 2019.

[72] Fei Liu, Fuliang Weng, Chao Shen and Lin Zhao. "System and Method for Event Summarization Using Observer Social Media Messages." Applications US14/105,233, EP13818081.5A, PCT/US2013/074929. Filed by Robert Bosch LLC, December 2013. US 10,224,025 B2. **Granted**, March 2019.

[73] Fei Liu and Fuliang Weng. "Broad-Coverage Normalization System for Social Media Language." Application US13/779,083. Filed by Robert Bosch LLC, February 2013. US 9,164,983 B2. **Granted**, October 2015.

[74] Fei Liu and Fuliang Weng. "Method and System for Text Message Normalization Based on Character Transformation and Web Data," Applications US13/117,330, CN201280036746.7A, EP12725208.8A, PCT/US2012/038870. Filed by Robert Bosch LLC, May 2011.

Technical Reports

[75] Norman Sadeh, Alessandro Acquisti, Travis Breaux, Lorrie Cranor, Aleecia M. McDonald, Joel Reidenberg, Noah A. Smith, **Fei Liu**, N. Cameron Russel, Florian Schaub, Shomir Wilson. "The Usable Privacy Policy Project: Combining Crowdsourcing, Machine Learning and Natural Language Processing to Semi-automatically Answer Those Privacy Questions Users Care About". *Technical Report CMU-ISR-13-119*, Carnegie Mellon University.

PROFESSIONAL ACTIVITIES

Conference Organizing Committee

Senior area chair, Annual Meeting of the Association for Comp. Linguistics (**ACL 2026**)
Senior area chair, 2025 Conf. on Empirical Methods in Natural Language Processing (**EMNLP 2025**)
Senior area chair, North American Chapter of the Association for Comp. Linguistics (**NAACL 2025**)
Tutorial chair, 2024 Conf. on Empirical Methods in Natural Language Processing (**EMNLP 2024**)
Senior area chair, Annual Meeting of the Association for Comp. Linguistics (**ACL 2024**)
Senior area chair, North American Chapter of the Association for Comp. Linguistics (**NAACL 2024**)
Senior area chair, The 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (**LREC-COLING 2024**)

Senior area chair / Session chair, Conf. on Empirical Methods in Natural Language Proc. (**EMNLP 2022**)

Area chair / Session chair, The 29th International Conf. on Computational Linguistics (**COLING 2022**)

Senior area chair / Session chair, Asia-Pacific Chapter of the Association for Comp. Ling. (**AACL 2022**)

Area chair, The 15th International Natural Language Generation Conference (**INLG 2022**)

Senior program committee, The Thirty-Sixth AAAI Conf. on Artificial Intelligence (**AAAI 2022**)

Senior area chair, 2021 Conf. on Empirical Methods in Natural Language Proc. (**EMNLP 2021**)

Area chair / Session chair, The 59th Annual Meeting of the Association for Comp. Ling. (**ACL 2021**)

Area chair / Session chair, North American Chapter of the Association for Comp. Ling. (**NAACL 2021**)

Area chair, European Chapter of the Association for Computational Linguistics (**EACL 2021**)

General publication chair, 2020 Conf. on Empirical Methods in Natural Language Proc. (**EMNLP 2020**)

Senior area chair, Annual Conference of the Association for Computational Linguistics (**ACL 2020**)

Senior program committee, The Thirty-Fourth AAAI Conf. on Artificial Intelligence (**AAAI 2020**)

Publication co-chair, The 2019 Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing (**EMNLP 2019**)

Area chair / Session chair, The 57th Annual Meeting of the Association for Comp. Ling. (**ACL 2019**)

Area chair / Session chair, The 2019 Annual Conference of the North American Chapter of the Association for Computational Linguistics (**NAACL-HLT 2019**)

Demonstrations chair, The 56th Annual Meeting of the Association for Comp. Ling. (**ACL 2018**)

Area chair / Session chair, 2018 Conf. on Empirical Methods in Natural Lang. Proc. (**EMNLP 2018**)

Area chair, The 8th International Joint Conference on Natural Language Processing (IJCNLP 2017)

Area chair, CCF Intl. Conf. on Natural Language Proc. and Chinese Computing (NLPCC 2017)

Workshop co-organizer, New Frontiers in Summarization, (**EMNLP 2017, 2019, 2021**)

Session chair, The 15th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (**NAACL-HLT 2016**)

Workshop co-organizer, AAAI 2016 Fall Symposium on Privacy and Language Technologies

Session chair, The 2015 Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (**NAACL-HLT 2015**)

Session chair, The 2015 Conference of the Association for Computational Linguistics (**ACL 2015**)

Area chair, The Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (**NAACL-HLT 2015**)

Journal Editorial

Editor, Artificial Intelligence Journal (AIJ) Board, 2024–

Associate editor, Journal of Artificial Intelligence Research (JAIR), 2023–

Action editor, Transactions of the Association for Computational Linguistics (TACL), 2022–2024

Associate editor, ACM Transactions on Asian and Low-Resource Language Info. Processing, 2019–2021

Standing review committee, Transactions of the Association for Computational Linguistics, 2018–2022