IEEE ICDM 2025 Program Schedule
Washington, DC, USA
Conference time zone: US Eastern Standard Time

Meeting Rooms

Floor	Room
2nd floor	Presidential Ballroom
2nd floor	Congressional
2nd floor	Senate Room
2nd floor	Continental Room
2nd floor	Federal A
2nd floor	Federal B
2nd floor	South American A
2nd floor	South American B
2nd floor	California
2nd floor	Ohio
2nd floor	Michigan Executive Board Room
2nd floor	New York
2nd floor	Massachusetts
2nd floor	Pan American
2nd floor	Statler A
2nd floor	Statler B

Sponsored by

Diamond Sponsor:

Gold Sponsor:

IEEE ICDM 2025 Program Schedule

Washington DC, USA
November 12 Wednesday - November 15 Saturday, 2025

Keynote Lecture: **60 minutes** (50-min talk + 10-min Q/A)
Main conf. regular: **20 mins** (17-minute talk + 3-min Q/A)
Main conf. short: **15 minutes** (12-min talk + 3-min Q/A)

Registration: Tuesday, Nov. 11, 15:00-18:00 PM
(Location: 2nd Floor Coatcheck)

Day 1: Wednesday, Nov. 12, 2025			
Time	**Location**	**Workshop Chairs** **(Li Zhang, Zhe Jiang, Ranga Raju Vatsavai)**	**Chair(s)**
7:30-17:00	2nd Floor Coatcheck	**Registration**	Yifeng Gao, Yanhua Li
10:00-10:30	Congressional, Capital Terrace	**Coffee Break**	
12:30-13:30		**Lunch** (Presidential Ballroom)	
16:00-16:30	Congressional, Capital Terrace	**Coffee Break**	
8:30-12:30	Presidential	Trust4ML: Trustworthy Machine Learning for Fair, Private, Robust, and Explainable Decision-Making Workshop https://trustworthy-ai.com.au/	Huaming Chen
8:30-12:30	Congressional	AI4TS: Workshop of Artificial Intelligence for Time Series Analysis (AI4TS): Theory, Algorithms, and Applications https://ai4ts.github.io/icdm2025	Yifeng Gao
8:30-12:30	Senate	Mental Health Disorder Detection on Social Media (MHSM 2025) Workshop https://cmhsm.my.canva.site/mhsm-workshop	Jun Li
8:30-12:30	Federal A	1st Workshop on Computational Gastronomy (CoGamy): Data Science for Food and Cooking https://sites.google.com/uniroma1.it/cogamy2025	Andrea Vitaletti

Time	Room	Workshop	Organizers
8:30-12:30	Federal B	Workshop on Synergy of AI and Multimodal Biomedical Data Mining (SAMBio) https://icdm25-saimbio.github.io/	Haoteng Tang, Lu Zhang
8:30-12:30	South American A	Workshop on Multimodal Search and Recommendations (MMSR) Workshop https://icdm-mmsr.github.io/	Aditya Chichani
8:30-12:30	South American B	2025 Symposium for Undergraduate Research in Data Science, Systems, and Security (REU Symposium 2025) REU Symposium https://bigdatareu.umbc.edu/reu-symposium/reu-symposium-2025/	Jianwu Wang, Xuechen Zhang, Xiaokun Yang, Xinghui Zhao, Matthias K. Gobbert
8:30-12:30	California	Workshop on Grounding Documents with Reasoning, Agents, Retrieval, and Attribution (RARA) Workshop https://raraworkshop.github.io/	Manan Suri
8:30-12:30	Ohio	Data Mining for Service (DMS 2025) Workshop https://www2.kansai-u.ac.jp/dslab/workshop/2025/DMS2025/	Katsutoshi Yada
8:30-12:30	New York	The First International Workshop on Resilient Artificial Intelligence for Manufacturing Workshop https://xuanwang91.github.io/2025-ICDM-RAiM/	Ran Jin
8:30-12:30	Massachusetts	11th Workshop on Data Mining in Earth System Science (DMESS 2025) https://www.climatemodeling.org/workshops/dmess2025/	Forrest M. Hoffman
8:30-12:30	Pan American	Interactive and Scalable Information Retrieval Methods for E-Commerce (ISIR-eCom) https://isir-ecom.github.io/	Linsey Pang
8:30-12:30	Statler A	International Workshop on Foundation Models for Biology and Bioinnovation https://data-science-group.github.io//BioFM/2025/	Amin Beheshti
8:30-12:30	Statler B	AI for Computational Social Science https://ai4css.github.io/	Zhao Wang
16:00-16:30	Congressional,	**Coffee Break**	

	Capital Terrace		
13:30-17:30	Presidential	Trust4ML: Trustworthy Machine Learning for Fair, Private, Robust, and Explainable Decision-Making Workshop https://trustworthy-ai.com.au/	Huaming Chen
13:30-17:30	Congressional	AI4TS: Workshop of Artificial Intelligence for Time Series Analysis (AI4TS): Theory, Algorithms, and Applications https://ai4ts.github.io/icdm2025	Yifeng Gao
13:30-17:30	Senate	The 8th IEEE Workshop on Benchmarking, Performance Tuning and Optimization for Big Data Analytics and Big Models (BPOD) https://bdal.umbc.edu/bpod/bpod-2025/	Zhiyuan Chen
13:30-17:30	Federal A	Open World Anomaly Detection in Dynamic and Evolving Environments (OWAD) https://sites.google.com/view/icdm2025-open-world-workshop	Roberto Corizzo
13:30-17:30	Federal B	The 9th Workshop on Graph Techniques for Adversarial Activity Analytics (GTA3) https://gta3.hrl.com/	Jiejun Xu
13:30-17:30	South American A	5th IEEE International Workshop on Multimodal AI (MMAI 2025) https://icdmw25mmai.github.io/	Kaiqun Fu
13:30-17:30	South American B	2025 Symposium for Undergraduate Research in Data Science, Systems, and Security (REU Symposium 2025) REU Symposium https://bigdatareu.umbc.edu/reu-symposium/reu-symposium-2025/	Jianwu Wang, Xuechen Zhang, Xiaokun Yang, Xinghui Zhao, Matthias K. Gobbert
13:30-17:30	California	Data Mining for Ambient Intelligence and Secure Communications (DM-AISC) https://thinkspace.csu.edu.au/dm-aisc2025/	Quazi Mamun
13:30-17:30	Ohio	Visionary Innovation in Standards and Technology of GenAI (VISTA) https://vista-genai.github.io/	Denghui Zhang
13:30-17:30	New York	International Workshop on Adaptable, Reliable, and Responsible Learning (ARRL) https://arrl-icdm.github.io/arrl2025/	Yi He
13:30-17:30	Massachusetts	The first Workshop on Large Language Models for Advanced Clustering Techniques	Ye Wei

		(LLM4Cluster) https://llm4cluster.github.io/LLM4Cluster2025/	
13:30-17:30	Pan American	The 2nd Workshop on Information Seeking with Big Models (BigIS) https://bigis24.github.io/bigis2025/	Zheng Wang
13:30-17:30	Statler A	IEEE ICDM 20th International Workshop on Spatial and Spatiotemporal Data Mining (SSTDM-2025) https://stac-lab.github.io/sstdm25/	Krishna Karthik Gadiraju
13:30-17:30	Statler B	International Workshop on AI for Nudging and Personalization (WAIN) https://lirio-brell.github.io/wain25/	Christopher Symons

Day 2: Thursday, November 13, 2025

8:00-17:00	**Registration (2nd Floor Coatcheck)**		
8:00-8:30	**Poster Setup** (Session Chairs: Lei Zhang, Zhiqian Chen)		
8:20-9:00	**Opening Ceremony** Conference Chairs: Chang-Tien Lu (Virginia Tech) Dimitrios Gunopulos (University of Athens) PC Chairs: Wei Ding (U. of Massachusetts, Boston) Jilles Vreeken (CISPA Helmholtz Center) Workflow Chair: Fusheng Wang (Stony Brook U) Location: Presidential Ballroom		
9:00-10:00	Keynote Speech I **Dr. John Quackenbush, Harvard University, USA** **Why Networks Matter: Embracing Biological Complexity** Location: Presidential Ballroom		
10:00-10:30	Capital Terrace, Congressional	**Coffee Break**	
10:00-10:30	Congressional	**Poster Display** (Session Chairs: Lei Zhang, Zhiqian Chen)	

Time	Location	Session/Workshop	Session Chair(s)
10:30-12:00	Presidential Ballroom	Panel A: The Future of Probabilistic Modeling in Data Mining and AI	Farhad Pourkamali
10:30-12:30	Senate	**Main Conference Track S11**: Graphs I	Lei Zhang
10:30-12:30	Federal A	**Main Conference Track S12**: LLMs I	Taoran Ji
10:30-12:30	Federal B	**Main Conference Track S13**: Applications I	Ping Wang
10:30-12:30	South American A		
10:30-12:30	South American B	Sentiment Elicitation from Natural Text for Information Retrieval and Extraction (SENTIRE) https://sentic.net/sentire/	Donghao Huang
10:30-12:30	California	Tutorial 1: Data Security and Privacy in Machine Unlearning: Recent Advances, Challenges, and Future Perspectives	Aobo Chen, Wei Qian, Zheyuan Liu, Shagufta Mehnaz, Tianhao Wang, Mengdi Huai
10:30-12:30	Ohio	Tutorial 2: AI-Driven Multimodal	Jiaming Cui, Xuan

		Frameworks for Healthcare Decision-Making	Wang, Zhe Zeng, Hongru Du
10:30-12:30	New York	AI-ready data for science discovery (ADSD) https://cnicds.github.io/ICDM2025/	Pengfei Wang
10:30-12:30	Massachusetts	SABID 2025: Workshop on Solar & Stellar Astronomy Big Data https://sites.google.com/view/sabid2025/home	Bo Shen
10:30-12:30	Pan American	Workshop on Data Mining for Reliable Decision-Making (RDM) https://sites.google.com/view/rdm-2025	Haotian Wang
10:30-12:30	Statler A	1st Workshop on the Use of Large Language Models for Cyber Security (LLM4Sec) https://llm4sec-workshop.github.io/	Antonino Rullo
10:30-12:30	Statler B	User Modeling and Recommendation (UMRec) https://umrec.github.io/	Yanghao Xiao
12:30-13:30	**Lunch** (Presidential Ballroom)		
14:00-16:00	Senate	**Main Conference Track S14**: Graph Neural Networks	Lecheng Zheng
14:00-16:00	Federal A	**Main Conference Track S15**: Time Series I	Yifeng Gao
14:00-16:00	Federal B	**Main Conference Track S16**: Interpretability	Jianwu Wang
14:00-16:00	South American A	Sentiment Elicitation from Natural Text for Information Retrieval and Extraction (SENTIRE) https://sentic.net/sentire/	Donghao Huang
14:00-16:00	South American B	Women in Science	Senjuti Basu Roy, Linsey Pang, Ling Chen
14:00-15:50	California	Tutorial 3: Geospatial Foundation Models: Algorithms and Applications	Ranga Raju Vatsavai
14:00-15:50	Ohio	Tutorial 4: Federated Stochastic Compositional and Bilevel Optimization	Hongchang Gao, Xinwen Zhang
14:00-16:00	New York	AI-ready data for science discovery (ADSD) https://cnicds.github.io/ICDM2025/	Pengfei Wang

Time	Room	Session	Chair/Organizer
14:00-16:00	Massachusetts	SABID 2025: Workshop on Solar & Stellar Astronomy Big Data https://sites.google.com/view/sabid2025/home	Bo Shen
14:00-16:00	Pan American	Workshop on Data Mining for Reliable Decision-Making (RDM) https://sites.google.com/view/rdm-2025	Haotian Wang
14:00-16:00	Statler A	1st Workshop on the Use of Large Language Models for Cyber Security (LLM4Sec) https://llm4sec-workshop.github.io/	Antonino Rullo
14:00-16:00	Statler B	User Modeling and Recommendation (UMRec) https://umrec.github.io/	Yanghao Xiao
16:00-16:30	Capital Terrace, Congressional	**Coffee Break**	
16:00-16:30		**Poster Display**	
16:30-18:00	Senate	**Main Conference Track S17**: Classification	Raju Vatsavai
16:30-18:00	Federal A	**Main Conference Track S18**: Explainability	Li Zhang
16:30-18:00	South American B	Women in Science	Senjuti Basu Roy, Linsey Pang, Ling Chen
16:10-18:00	California	Tutorial 5: Uncertainty Quantification and Mitigation in Large Language Models	Longchao Da, Xiaoou Liu, Hua Wei
16:10-18:00	Ohio	Tutorial 6: Behavior-Aware Data Valuation for LLMs at Scale	Zhaozhuo Xu, Huawei Lin, Weijie Zhao, Denghui Zhang
16:30-18:00	New York	AI-ready data for science discovery (ADSD) https://cnicds.github.io/ICDM2025/	Pengfei Wang
16:30-18:00	Massachusetts	SABID 2025: Workshop on Solar & Stellar Astronomy Big Data https://sites.google.com/view/sabid2025/home	Bo Shen
16:30-18:00	Pan American	Workshop on Data Mining for Reliable Decision-Making (RDM) https://sites.google.com/view/rdm-2025	Haotian Wang
16:30-18:00	Statler A	1st Workshop on the Use of Large	Antonino Rullo

		Language Models for Cyber Security (LLM4Sec) https://llm4sec-workshop.github.io/	
17:00-18:00	Statler B	User Modeling and Recommendation (UMRec) https://umrec.github.io/	Yanghao Xiao
18:05-18:30	Registration Desk	OC Group Photo (Invitation Only)	
19:00-21:00		OC Business Meeting (Invitation Only)	

Day 3: Friday, November 14, 2025

8:30-17:00	**Registration (2nd Floor Coatcheck)**		
8:30-9:00	**Poster Setup** (Session Chairs: Lei Zhang, Zhiqian Chen)		
9:00-10:00	Keynote Speech II **Dr. Aidong Zhang, University of Virginia, USA** **Optimizing External and Internal Knowledge of Large Foundation Models** **for Scientific Discovery** Location: Presidential Ballroom		
10:00-10:30	Capital Terrace, Congressional	**Coffee Break**	
10:00-10:30	Congressional	**Poster Display** (Session Chairs: Lei Zhang, Zhiqian Chen)	
Time	**Location**	**Session/Workshop**	**Session Chair(s)**
10:30-12:00	Presidential Ballroom	Panel B: AI-Driven Data Mining - Reshaping the Intelligent Future	Duoduo (Lindi) Liao
10:30-12:30	Senate	**Main Conference Track S21**: Graphs II	Yi He
10:30-12:30	Federal A	**Main Conference Track S22**: LLMs II	Kunpeng Liu
10:30-12:30	Federal B	**Main Conference Track S23**: Applications II	Xuechen Zhang
10:30-12:30	South American A		
10:30-12:30	South American B	BlueSky Track	Yujun Yan, Farnoush Banaei-Kashani, Xiaowei Jia
10:30-12:30	California	Tutorial 7: Time Series Analysis Unraveled: Motifs, Forecasting, and Explainability	Jessica Lin, Panagiotis Papapetrou, Li Zhang
10:30-12:30	Ohio	Tutorial 8: AI for Precision Medicine: Integrative Analysis of Histopathology Images and Spatial Omics	Ninghui Hao, Boshen Yan, Dong Li, Chen Zhao, Guihong Wan
10:30-12:30	New York	The 12th workshop for high dimensional data mining (HDM) https://sites.google.com/view/hdm25	Aman Shukla

10:30-12:30	Massachusetts	Graph-Augmented LLMs: Bridging Language and Structured Knowledge (GaLM) https://iitbhu.ac.in/cf/jcsic/activities/workshops/GaLM	Steve Huntsman
10:30-12:30	Pan American	Neverending Machine Learning (NML) https://sites.google.com/view/nml-icdm2025/home	Michal Wozniak
12:30-13:30	**Lunch** (Presidential Ballroom)		
14:00-15:30	Senate	**Main Conference Track S24**: Deep Learning I	Lindi Liao
14:00-15:30	Federal A	**Main Conference Track S25**: Time Series II	Dongjin Song
14:00-15:30	Federal B	**Main Conference Track S26**: Clustering	Meikang Qiu
14:00-15:30	South American A	BlueSky PC meeting	Yujun Yan, Farnoush Banaei-Kashani, Xiaowei Jia
13:30-15:30	South American B	PhD Forum	Olga Andreeva, Vagelis Papalexakis, Lijing Wang
13:30-15:20	California	Tutorial 9: Fairness in Language Models: A Tutorial	Zichong Wang, Avash Palikhe, Zhipeng Yin, Wenbin Zhang
13:30-15:20	Ohio	Tutorial 10: Responsible GenFMs: From Foundational Principles to Real-World Impact	Yue Huang, Canyu Chen, Lu Cheng, Bhavya Kailkhura, Manling Li, Xiangliang Zhang
14:00-15:30	New York	Workshop on AI for Financial Crime Fight (AI4FCF) https://sites.google.com/view/ai4fcf/home-page	Nikhil Jha
14:00-15:30	Massachusetts	The 5th Machine Learning for Cybersecurity (MLC), 2025 https://ml4cyber.github.io/25/	Atousa Arzanipour, Rouzbeh Behnia
14:00-15:30	Pan American	The 1st International Workshop on Data Mining and AI for Law (DMAIL),	Jiangping Chen

		2025 https://dmail-workshop.github.io/DMAIL2025/	
14:00-15:30	Statler A	3rd International Workshop on Data Mining in Finance (DMF2025) https://sites.google.com/view/dmf-2025	Shuoling Liu
14:00-15:30	Statler B	Data Mining in Biomedical Informatics and Healthcare (DMBIH'25) https://www.oakland.edu/secs/dmbih-workshop-2025/	Mohammad-Reza Siadat
15:30-16:00	Capital Terrace, Congressional	**Coffee Break**	
15:30-16:00	Capital Terrace, Congressional	**Poster Display**	
16:00-17:30	Presidential Ballroom	Plenary Panel: TBA	Jilles Vreeken & Wei Ding
16:00-17:30	South American B	PhD Forum	Vagelis Papalexakis, Lijing Wang, Olga Andreeva
15:40-17:30	California	Tutorial 11: Explaining the "Unexplainable" Large Language Models	Zhen Tan, Song Wang, Jing Ma, Jundong Li, Huan Liu
15:40-17:30	Ohio	Tutorial 12: Multiple Clustering: From Classical Foundations to Interactive, User-Guided Methods	Jiawei Yao, Juhua Hu, Jian Pei
16:00-17:00	New York	Workshop on AI for Financial Crime Fight (AI4FCF) https://sites.google.com/view/ai4fcf/home-page	Nikhil Jha
16:00-17:30	Massachusetts	The 5th Machine Learning for Cybersecurity (MLC), 2025 https://ml4cyber.github.io/25/	Atousa Arzanipour, Rouzbeh Behnia
16:00-17:30	Pan American	The 1st International Workshop on Data Mining and AI for Law (DMAIL), 2025 https://dmail-workshop.github.io/DMAIL2025/	Jiangping Chen

16:00-17:00	Statler A	3rd International Workshop on Data Mining in Finance (DMF2025) https://sites.google.com/view/dmf-2025	Shuoling Liu
16:00-17:00	Statler B	Data Mining in Biomedical Informatics and Healthcare (DMBIH'25) https://www.oakland.edu/secs/dmbih-workshop-2025/	Mohammad-Reza Siadat
17:30-18:30		**Walk to the International Spy Museum** 700 L'Enfant Plaza SW, Washington, DC 20024	
18:30-22:00 (Doors open at 18:00)	International Spy Museum	**Banquet** Award Ceremony Social Program (Guests may enter starting at 18:00PM)	

Day 4: Saturday, November 15, 2025

8:30-13:30	Registration (2nd Floor Coatcheck)		
8:30-9:00	**Demo Poster Setup** (Demo Chairs: Kaiqun Fu, Tim Weninger)		
9:00-10:00	**Keynote Speech III** **Dr. Jure Leskovec, Stanford University, USA** **Relational Foundation Models: A New Frontier for Predictive AI in Structured Data** Location: Regency Ballroom		
10:00-10:30	Capital Terrace, Congressional	**Coffee Break**	
10:00-12:00	Congressional	**Demo Poster Display** (Demo Chairs: Kaiqun Fu, Tim Weninger)	
Time	**Location**	**Session/Workshop**	**Session Chair(s)**
10:30-12:30	Senate	UG HS Symposium (Keynote, Fireside chat, Parent Panel)	Xuan Wang, Yanjie Fu
10:30-12:30	Federal A	**Main Conference Track S31**: Graphs & Learning	Liqing Zhang
10:30-12:30	Federal B	**Main Conference Track S32**: Applications III	Raju Vatsavai
10:30-12:30	California	Tutorial 13: Computational Pathology Foundation Models: Datasets, Adaptation Strategies, and Evaluations	Dong Li, Ninghui Hao, Xintao Wu, Guihong Wan, Chen Zhao
12:30-13:30	Lunch (Presidential Ballroom)		
12:30-14:00	Congressional	UG HS Symposium (Poster Session)	Xuan Wang, Yanjie Fu, Lei Zhang, Zhiqian Chen
14:00-15:30	Senate	UG HS Symposium (Backup)	Xuan Wang and Yanjie Fu
14:00-15:30	Federal A	UG HS Symposium UH1 (Oral Session: S01287, S01286, S01285, S01242, S01241, S01282, S01281)	Sanjay Madria
14:00-15:30	Federal B	UG HS Symposium UH2 (Oral Session: S01280, S01279, S01278, S01277, S01276, S01275, S01274)	Chen Chen
14:00-15:30	South American B	UG HS Symposium UH3 (Oral Session:	Fang Jin

		S01273, S01271, S01269, S01267, S01264, S01263)	
13:30-15:30	California	UG HS Symposium UH4 (Oral Session: S01262, S01261, S01260, S01258, S01257, S01256)	Haibing Lu
14:00-15:30	New York	UG HS Symposium UH5 (Oral Session: S01255, S01254, S01253, S01252, S01251, S01250)	Mohammad Ali Javidian
14:00-15:30	Massachusetts	UG HS Symposium UH6 (Oral Session: S01249, S01248, S01246, S01245, S01244, S01243, DM556)	Long Nguyen
14:00-15:30	Pan American	**Main Conference Track S33**: Deep Learning II	Yong Zhuang
14:00-15:30	Statler A	1st International Workshop on Realistic Robustness and Generalization in Data Mining (RRoG-DM) https://sites.google.com/view/kaizhu-huang-homepage/icdm-rrog-workshop-2025	Kaizhu Huang
14:00-15:30	Statler B	**Main Conference Track S34**: Anomaly Detection	Jundong Li
15:30-16:00	Capital Terrace, Congressional	**Coffee Break**	
15:30-16:00	Capital Terrace, Congressional	**Poster Display**	
16:00-17:30	Senate	UG HS Symposium (Backup)	Xuan and Yanjie
16:00-17:30	Federal A	UG HS Symposium UH7 (Oral Session: S01284, S01283, S01240, S01239, S01238, S01237, S01236)	Yi He
16:00-17:30	Federal B	UG HS Symposium UH8 (Oral Session: S01235, S01234, S01233, S01232, S01231, S01230, S01229)	Kunpeng Liu
16:00-17:30	South American B	UG HS Symposium UH9 (Oral Session: DM314, S01228, S01227, S01226, S01224, S01223, S01222)	Kanthi K Sarpatwar
16:00-17:30	California	UG HS Symposium UH10 (Oral Session: S01221, S01220, S01219, S01218, S01217, S01216)	Zhou Yang

Time	Room	Session	Chair
16:00-17:30	Ohio	(Not available)	
16:00-17:30	New York	UG HS Symposium UH11 (Oral Session: S01215, S01214, S01213, S01212, S01211, S01210)	Senjuti Basu Roy
16:00-17:30	Massachusetts	UG HS Symposium UH12 (Oral Session: S01208, S01207, S01206, S01204, S01203, S01201)	Meikang Qiu
16:00-17:30	Pan American	**Main Conference Track S35**: Foundations	Kaixun Hua
16:00-17:30	Statler A	1st International Workshop on Realistic Robustness and Generalization in Data Mining (RRoG-DM) https://sites.google.com/view/kaizhu-huang-homepage/icdm-rrog-workshop-2025	Kaizhu Huang
16:00-17:30	Statler B	**Main Conference Track S36**: Trustworthiness	Wenbin Zhang
17:30-18:30	Presidential Ballroom	**Closing Ceremony** Conference Chairs: Chang-Tien Lu (Virginia Tech) Dimitrios Gunopulos (University of Athens) PC Chairs: Wei Ding (U. of Massachusetts, Boston) Jilles Vreeken (CISPA Helmholtz Center) Workflow Chair: Fusheng Wang (Stony Brook U)	

Conference Hotel Floor Map (Second Floor)

Coffee, Lunch and Banquet

Coffee Break: Congressional and Capital Terrace

Wed, Nov 12 — 10:00–10:30 • 16:00–16:30
Thu, Nov 13 — 10:00–10:30 • 16:00–16:30
Fri,   Nov 14 — 10:00–10:30 • 15:30–16:00
Sat,   Nov 15 — 10:00–10:30 • 15:30–16:00

Lunch break: 12:30 – 13:30

Day 1: On Your Own; Day 2-4: Provided (Location: Presidential Ballroom)

Banquet: 18:30-22:00, Day 3, Nov 15

Location: International Spy Museum. Door Open: 18:00

Main Conference Paper Sessions

ID	Title	Authors
	S11: Graphs I	
DM247	Early Detection and Attribution of Structural Changes in Dynamic Networks	Izhar Ali *(Rowan University)*, Shen-Shyang Ho *(Rowan University)*
DM418	HyperSearch: Prediction of New Hyperedges through Unconstrained yet Efficient Search	Hyunjin Choo *(KAIST)*, Fanchen Bu *(KAIST)*, Hyunjin Hwang *(KAIST)*, Young-Gyu Yoon *(KAIST)*, Kijung Shin *(KAIST)*
DM624	Modularity-Fair Deep Community Detection	Christos Gkartzios *(University of Ioannina)*, Evaggelia Pitoura *(University of Ioannina)*, Panayiotis Tsaparas *(University of Ioannina)*
DM360	LifelongSkill: Toward Modality-varying Lifelong Learning with Latent Knowledge Hypergraph	Jiayi Chen *(University of Virginia)*, Kishlay Jha *(University of Iowa)*, Aidong Zhang *(University of Virginia)*
DM943	HyperModal: Dynamic Hypergraph Contrastive Learning for Multi-Modal Representation	Lulwah AlKulaib *(Kuwait University)*
	S13: Applications I	
DM255	Equilibrium-Based NFT Marketplace Recommendation for NFTs with Breeding	Chin-Yuan Yeh *(National Taiwan University)*, Hsi-Wen Chen *(National Taiwan University)*, De-Nian Yang *(Academia Sinica)*, Wang-Chien Lee *(The Pennsylvania State University)*, Philip Yu *(University of Illinois)*, Ming-Syan Chen *(National Taiwan University)*
DM577	Beyond the Pre-Service Horizon: Infusing In-Service Behavior for Improved Financial Risk Forecasting	Senhao Liu *(Renmin University of China)*, Zhiyu Guo *(Tencent Weixin Group)*, Zhiyuan Ji *(Renmin University of China)*, Yueguo Chen *(Renmin University of China)*, Yateng Tang *(Tencent Weixin Group)*, Yunhai Wang *(Renmin University of China)*, Xuehao Zheng *(Tencent Weixin Group)*, Xiang Ao *(University of Chinese Academy of Sciences)*
DM588	On Predicting Post-Click Conversion Rate via Counterfactual Inference	Junhyung Ahn *(Viva Republica Inc.)*, Sanghack Lee *(Seoul National University)*
DM695	Extracting Actionable Insights from Building Energy Data using Vision LLMs on Wavelet and 2D Recurrence Representations	Amine Bechar *(University of Sharjah)*, Adel Oulefki *(University of Sharjah)*, Abbes Amira *(University of Sharjah)*, Fatih Kurugollu *(University of Sharjah)*, Yassine Himeur *(University of Dubai)*
DM731	Boosting Clinical Outcome Prediction with Context-Aware Feature Imputation and Disentanglement	Lei Gong *(University of Virginia)*, Aidong Zhang *(University of Virginia)*, Kishlay Jha *(University of Iowa)*
	S12: LLMs I	

DM238	Detect, Investigate, Judge and Determine: A Knowledge-guided Framework for Few-shot Fake News Detection	Ye Liu *(University of Science and Technology of China)*, Jiajun Zhu *(University of Science and Technology of China)*, Xukai Liu *(University of Science and Technology of China)*, Haoyu Tang *(University of Science and Technology of China)*, Yanghai Zhang *(University of Science and Technology of China)*, Kai Zhang *(University of Science and Technology of China)*, Xiaofang Zhang *(The Hong Kong University of Science and Technology)*, Enhong Chen *(University of Science and Technology of China)*
DM245	Learn while Unlearn: An Iterative Unlearning Framework for Generative Language Models	Haoyu Tang *(University of Science and Technology of China)*, Ye Liu *(University of Science and Technology of China)*, Xi Zhao *(The Hong Kong University of Science and Technology)*, Xukai Liu *(University of Science and Technology of China)*, Yanghai Zhang *(University of Science and Technology of China)*, Kai Zhang *(University of Science and Technology of China)*, Xiaofang Zhou *(The Hong Kong University of Science and Technology)*, Enhong Chen *(University of Science and Technology of China)*
DM328	Efficient Sequential Recommendation for Long Term User Interest Via Personalization	Qiang Zhang *(Meta)*, Hanchao Yu *(Meta)*, Ivan Ji *(Meta)*, Chen Yuan *(Meta)*, Yi Zhang *(Meta)*, Chihuang Liu *(Meta)*, Xiaolong Wang *(Meta)*, Christopher E. Lambert *(meta)*, Ren Chen *(meta)*, Chen Kovacs *(meta)*, Xinzhu Bei *(Meta)*, Renqin Cai *(meta)*, Rui Li *(meta)*, Lizhu Zhang *(meta)*, Xiangjun Ma *(META)*, Qunshu Zhang *(Meta)*, Benyu Zhang *(Meta)*
DM657	InSQuaD: In-Context Learning for Efficient Retrieval via Submodular Mutual Information to Enforce Quality and Diversity	Souradeep Nanda *(University of Texas at Dallas)*, Anay Majee *(University of Texas at Dallas)*, Rishabh Iyer *(University of Texas at Dallas)*
DM273	Unveiling the Merits and Defects of LLMs in Automatic Review Generation for Scientific Papers	Ruochi Li *(North Carolina State University)*, Haoxuan Zhang *(University of North Texas)*, Edward Gehringer *(North Carolina State University)*, Ting Xiao *(University of North Texas)*, Junhua Ding *(University of North Texas)*, Haihua Chen *(University of North Texas)*
	S14: Graph Neural Networks	
DM424	DelayNetODE: Delay-Aware System Modelling Using Graph Attention and Continuous-Time Neural Dynamics	Saumya Karunadhika *(The University of Melbourne)*, Ling Luo *(The University of Melbourne)*, Bastian Oetomo *(The University of Melbourne)*, Michele Discepola *(The University of Melbourne)*, Sandra Kentish *(The University of Melbourne)*, Sally Gras *(The University of Melbourne)*, Uwe Aickelin *(The University of Melbourne)*
DM526	Test-Time Graph Rebirth For GNN Generalization Under Distribution Shifts	Xin Zheng *(Griffith University)*, Bo Li *(Griffith University)*, Yu Zheng *(Latrobe University)*, Qin Zhang *(Shenzhen University)*, Haishuai Wang *(Zhejiang University)*, The Hong Kong University of Science and Technology *(Guangzhou)*, Alan Wee-Chung Liew *(Griffith University)*, Shirui Pan *(Griffith*

		University)
DM527	Test-time GNN Model Evaluation on Dynamic Graphs	Bo Li *(Griffith University)*, Xin Zheng *(Griffith University)*, Ming Jin *(Griffith University)*, Can Wang *(Griffith University)*, Shirui Pan *(Griffith University)*
DM478	BLB-HGNN: Bag of Little Bootstraps for Training Heterogeneous GNNs	Aditya Vadlamani *(The Ohio State University)*, Sama Salarian *(The Ohio State University)*, Saket Gurukar *(The Ohio State University)*, Srinivasan Parthasarathy *(The Ohio State University)*
DM895	Self-Supervised Distribution Correction to Boost Information Gain in Offline Reinforcement Learning	Jingyi Yuan *(Arizona State University)*, Hamad Alduaij *(Arizona State University)*, Yang Weng *(Arizona State University)*
	S16: Interpretability	
DM509	SPOT: Spatio-temporal Pattern Mining and Optimization for Load Consolidation in Freight Transportation Networks	Sikai Cheng *(AI4OPT, Georgia Institute of Technology)*, Amira Hijazi *(AI4OPT, Georgia Institute of Technology)*, Jeren Konak *(AI4OPT, Georgia Institute of Technology)*, Alan Erera *(AI4OPT, Georgia Institute of Technology)*, Pascal Van Hentenryck *(AI4OPT, Georgia Institute of Technology)*
DM512	Resilient Pattern Mining	Pengxin Bian *(King's College London)*, Panagiotis Charalampopoulos *(King's College London)*, Lorraine Ayad *(Brunel University)*, Manal Mohamed *(King's College London)*, Solon Pissis *(CWI)*, Grigorios Loukides *(King's College London)*
DM706	Interpretable and Interactive Deep Survival Analysis with Time-dependent EXtreme Gradient Integration	Xinyu Qin *(University of Houston)*, Ruiheng Yu *(University of Houston)*, Armin Khayati *(University of Houston)*, Zixiao Qiu *(University of Toronto)*, Gengyi Zou *(MD Anderson Cancer Center)*, Yan Li *(University of Toronto)*, Lu Wang *(University of Houston)*
DM467	Speciated Unsupervised Skill Discovery	Ryan Wickman *(Microsoft)*, Xiaofei Zhang *(The University of Memphis)*
DM639	TABFAIRGDT: A Fast Fair Tabular Data Generator using Autoregressive Decision Trees	Emmanouil Panagiotou *(Freie Universität Berlin)*, Benoît Ronval *(UCLouvain, ICTEAM)*, Arjun Roy *(University of the Bundeswehr Munich)*, LMU Munich. 2) Munich Center for Machine Learning *(MCML)*, LMU Munich. 2) Munich Center for Machine Learning *(MCML)*, DTAI.) and Eirini Ntoutsi *(Research Institute CODE, Bundeswehr Universität Munich)*
	S15: Time Series I	
DM234	MARCEL: Multifaceted Spatial-Temporal Contrastive Learning for Generic Spatial-Temporal Representations	Yuhang Liu *(The State University of New York at Binghamton)*, Yingxue Zhang *(Binghamton University)*, Xin Zhang *(San Diego State University)*, Yu Yang *(Lehigh University)*, Yanhua Li *(Worcester Polytechnic Institute)*, Jun Luo *(Logistics and Supply Chain MultiTech R&D Centre)*
DM241	Improving Generalization Capabilities of Models Trained on Time Series Data Using Novel Downsampling	Ofir Landau *(Ben-Gurion University)*, Nir Nissim *(Nir Nissim)*

	Methods	
DM650	MuRAL-CPD: Active Learning for Multiresolution Change Point Detection	Stefano Bertolasi *(Università di Trento)*, Diego Carrera *(STMicroelectronics)*, Diego Stucchi *(STMicroelectronics)*, Pasqualina Fragneto *(STMicroelectronics)*, Luigi Amedeo Bianchi *(Università di Trento)*
DM587	STRIDE: Spectral-Temporal Representation and Instance-weighted Domain Expansion	Ngoc Chi Nam Doan *(Singapore Institute of Manufacturing Technology)*, Van Tung Tran *(Singapore Institute of Manufacturing Technology)*, Karkulali Pugalenthi *(Singapore Institute of Manufacturing Technology)*
DM269	On the Necessity of Multi-Domain Explanation: An Uncertainty Principle Approach for Deep Time Series Models	shahbaz Rezaei *(University of California, Davis)*, Avishai Halev *(University of California, Davis, CA)*, Xin Liu *(University of California, Davis)*
	S17: Classification	
DM561	Retrieval-Augmented Feature Generation for Domain-Specific Classification	Xinhao Zhang *(Portland State University)*, Jinghan Zhang *(Portland State University)*, Fengran Mo *(University of Montreal)*, Dakshak Keerthi Chandra *(Analog Devices)*, Yuzhong Chen *(Visa Research)*, Fei Xie *(Portland State University)*, Kunpeng Liu *(Portland State University)*
DM684	Efficient Large-Scale Learning of Minimax Risk Classifiers	Kartheek Bondugula *(Basque Center for Applied Mathematics)*, Santiago Mazuelas *(Basque Center for Applied Mathematics)*, Aritz Perez *(Basque Center for Applied Mathematics)*
DM455	Towards Trustworthy Vital Sign Forecasting: Leveraging Uncertainty for Prediction Intervals	Li Rong Wang *(Nanyang Technological University, College of Computing and Data Science)*, Thomas C. Henderson *(University of Utah, School of Computing)*, Yew Soon Ong *(Nanyang Technological University, College of Computing and Data Science)*, Yih Yng Ng *(Saw Swee Hock School of Public Health, National University of Singapore)*, Xiuyi Fan *(Nanyang Technological University, Lee Kong Chian School of Medicine)*
DM958	Revisiting One-Versus-One and One-Versus-Rest: Insights into Imbalanced Multi-class Classification	Kuan-Ting Chen *(Mohamed bin Zayed University of Artificial Intelligence)*, Chih-Jen Lin *(National Taiwan University)*
	S18: Explainability	
DM268	Explanation Space: A New Perspective into Time Series Interpretability	shahbaz Rezaei *(University of California, Davis)*, Xin Liu *(University of California, Davis)*
DM274	Explanations Go Linear: Post-hoc Explainability for Tabular Data with Interpretable Meta-Encoding	Simone Piaggesi *(University of Pisa, Pisa)*, Riccardo Guidotti *(University of Pisa)*, Fosca Giannotti *(Scuola Normale Superiore, Pisa)*, Dino Pedreschi *(University of Pisa, Pisa)*

DM342	Uncertainty Awareness and Trust in Explainable AI - On Trust Calibration using Local and Global Explanation	Carina Newen (*TU Dortmund University, Research Center Trustworthy Data Science and Security*), Daniel Bodemer (*University of Duisburg-Essen*), Sonja Glantz (*University of Duisburg-Essen*), Emmanuel Müller (*TU Dortmund University, Research Center Trustworthy Data Science and Security*), Magdalena Wischnewski (*University of Duisburg-Essen*), Lenka Schnaubert (*University of Nottingham*)
DM579	Metric-Guided Instance Re-weighting for Reliable Explainability	Yibo Huang (*The University of Auckland*), Zixin Kuang (*The University of Auckland*), Meng-Fen Chiang (*National Yang Ming Chiao Tung University*), Wang-Chien Lee (*The Pennsylvania State University*)
	S21: Graphs II	
DM340	PiGLeT: Probabilistic Message Passing for Semi-supervised Link Sign Prediction	Ka Hyun Park (*Seoul National University*), Junghun Kim (*Seoul National University*), Jinhong Jung (*Soongsil University*), U Kang (*Seoul National University*)
DM540	Attributed Hypergraph Generation with Realistic Interplay Between Structure and Attributes	Jaewan Chun (*KAIST*), Seokbum Yoon (*KAIST*), Minyoung Choe (*KAIST*), Geon Lee (*KAIST*), Kijung Shin (*KAIST*)
DM821	CGLE: Class-label Graph Link Estimator for Link prediction	Ankit Mazumder (*IIT Delhi*), Srikanta Bedathur (*IIT Delhi*)
DM681	Fast Percolation Centrality Approximation with Importance Sampling	Antonio Cruciani (*Aalto University*), Leonardo Pellegrina (*University of Padova*)
DM671	Discovering Communities in Continuous-Time Temporal Networks by Optimizing L-Modularity	Victor Brabant (*Université Lyon 1*), Angela Bonifati (*Université Lyon 1*), Rémy Cazabet (*Université Lyon 1*)
	S23: Applications II	
DM308	Effective and efficient similarity search for DNA sequences through de Bruijn sum graph embedding	Zhaochong Yu (*Shenzhen Technology University, College of Big Data and Internet*), Zihang Yang (*Shenzhen Technology University, College of Big Data and Internet*), Chris Ding (*The Chinese University of Hong Kong - Shenzhen, College of Data Science*), Chao Zeng (*Waseda University*), Feijuan Huang (*Shenzhen Second People's Hospital, Shenzhen, China, Shenzhen Institute of Translational Medicine*), Yuanzhe Cai (*Shenzhen Technology University, College of Big Data and Internet*)
DM316	HyHG: A Temporal Hypergraph Contrastive Learning Framework for Biomedical Hypothesis Generation	Amir Shariatmadari (*University of Virginia*), Sikun Guo (*University of Virginia*), Nathan Sheffield (*University of Virginia*), Aidong Zhang (*University of Virginia*), Kishlay Jha (*University of Iowa*)
DM714	CellFMCount: A Fluorescence Microscopy Dataset, Benchmark, and Methods for Cell Counting	Abdurahman Ali Mohammed (*Iowa State University*), Catherine Fonder (*Iowa State University*), Ying Wei (*Iowa State University*), Wallapak Tavanapong (*Iowa State University*), Donald S Sakaguchi (*Iowa State University*),

		Surya K. Mallapragada *(Iowa State University)*, Qi Li *(Iowa State University)*
DM693	sc-GRIP: a Graph Convolutional Approach to Infer Gene Interaction Polarity from Single-cell Data	Carolina Elisabeth Atria *(University of Vienna)*, Yitao Cai *(University of Vienna)*, Pascal Weber *(University of Vienna)*, Anna Beer *(University of Vienna)*, Nils Kriege *(University of Vienna)*, Christian Böhm *(University of Vienna)*, Roger Revilla-i-Domingo *(University of Vienna)*, Claudia Plant *(University of Vienna)*
DM877	Disentangled Contrastive Representation Learning for Zero-Shot Biomedical Text Classification	Ratri Mukherjee *(University of Iowa)*, Shailesh Dahal *(University of Iowa)*, Kishlay Jha *(University of Iowa)*
S22: LLMs II		
DM522	CL^3M-Rec: Contrastive Learning Enhanced LLMs for Recommendation	Yu-Xuan Zhou *(Beijing Normal-Hong Kong Baptist University)*, Ru-Bin Li *(The Hong Kong University of Science and Technology)*, Zhe Xuan-Yuan *(Beijing Normal-Hong Kong Baptist University)*, Pei-Yuan Lai *(Sun Yat-sen University)*, Chang-Dong Wang *(Sun Yat-sen University)*
DM600	Visual-Language Prompt Framework over Knowledge Differences	Noriaki Kawamae *(NTT Comwaare)*
DM280	BiSparse-AAS: Bilinear Sparse Attention and Adaptive Spans Framework for Scalable and Efficient Text Summarization	Desta Haileselassie Hagos *(Howard University)*, Legand L. Burge *(Howard University)*, Anietie Andy *(Howard University)*, Anis Yazidi *(University of Oslo)*, Vladimir Vlassov *(KTH Royal Institute of Technology, Division of Software and Computer Systems)*
DM306	DAMA: A Dual Alignment Framework for Enhanced LLM-Powered Recommendations	Qingwen Zeng *(The University of Sydney)*, Lining Chen *(The University of Sydney)*, Jushang Qiu *(Australian National University)*, Fangchen Liu *(The University of Sydney)*, Huaming Chen *(The University of Sydney)*, Ling Chen *(University of Technology Sydney)*
DM932	GeoToken: Hierarchical Geolocalization of Images via Next Token Prediction	Narges Ghasemi *(University of Southern California)*, Amir Ziashahabi *(University of Southern California)*, Salman Avestimehr *(University of Southern California)*, Cyrus Shahabi *(University of Southern California)*
S24: Deep Learning I		
DM355	Sharpness-Aware Optimization Through Variance Suppression on Deep AUC Maximization	Xinwen Zhang *(Temple University)*, Hongchang Gao *(Temple University)*
DM401	Exact Sparse Orthogonal Dictionary Learning	Yarui Cao *(Clemson University)*, Kai Liu *(Clemson University)*
DM994	Read-write LSTM: A Novel Approach Integrating Backpropagation to Data in LSTM	Yassine Baghoussi *(INESC TEC)*, João Mendes-Moreira *(INESC TEC, Faculdade de Engenharia, Universidade do Porto)*, Carlos Soares *(Fraunhofer,Faculdade de Engenharia, Universidade do Porto)*

DM841	Contrastive Joint Embedding of Attributed Multiplex Networks	Ylli Sadikaj *(University of Vienna)*, Yllka Velaj *(University of Vienna)*, Claudia Plant *(University of Vienna)*
DM668	On the Relationship between Populated Regions and Adversarial Robustness in Deep Neural Networks	Seongjin Park *(SAIT)*, Haedong Jeong *(Sogang University)*, Tair Djanibekov *(KAIST)*, Giyoung Jeon *(LG AI Research)*, Jinseok Seol *(KAIST)*, Jaesik Choi *(KAIST)*
	S26: Clustering	
DM840	ProHD: Projection-Based Hausdorff Distance Approximation	Jiuzhou Fu *(University of Washington)*, Luanzheng Guo *(Pacific Northwest National Laboratory)*, Nathan Tallent *(Pacific Northwest National Laboratory)*, Dongfang Zhao *(University of Washington)*
DM646	Information-Theoretic Active Correlation Clustering	Linus Aronsson *(Chalmers University of Technology)*, Morteza Haghir Chehreghani *(Chalmers University of Technology)*
DM685	ClusterSSFDA: Clustered Semi-Supervised Federated Domain Adaptation	Michele Craighero *(Politecnico di Milano)*, Taguhi Mesropyan *(Politecnico di Milano)*, Diego Carrera *(STMicroelectronics)*, Beatrice Rossi *(STMicroelectronics)*, Diego Stucchi *(STMicroelectronics)*, Pasqualina Fragneto *(STMicroelectronics)*, Giacomo Boracchi *(Politecnico di Milano)*
DM830	MNN-Closure Meets Local Maxima: A Double-Knee Approach to Anomaly Detection	Walid Durani *(LMU Munich)*, Philipp Jahn *(LMU Munich)*, Thomas Seidl *(LMU Munich)*, Claudia Plant *(University of Vienna)*, Christian Böhm *(University of Vienna)*
DM913	Beyond Static LLM Policies: Imitation-Enhanced Reinforcement Learning for Recommendation	Yi Zhang *(The University of Queensland)*, Lili Xie *(Independent Research)*, Ruihong Qiu *(The University of Queensland)*, Jiajun Liu *(CSIRO)*, Sen Wang *(The University of Queensland)*
	S25: Time Series II	
DM525	DiffuGC: Diffusion Model Can Help Discover Granger Causality from Interventional Time Series	Bo Liu *(Peking University)*, Hongyan Li *(Peking University)*, Shenda Hong *(Peking University)*
DM846	Effective Series Decomposition and Components Learning for Time Series Generation<td>	Zixuan Ma *(University of Pennsylvania)*, Chenfeng Huang *(University of Southern California)*
DM752	MTS-DMAE: Dual-Masked Autoencoder for Unsupervised Multivariate Time Series Representation Learning	Yi Xu *(Northeastern University)*, Yitian Zhang *(Northeastern University)*, Yun Fu *(Northeastern University)*
DM805	TIMED: Adversarial and Autoregressive Refinement of Diffusion-Based Time Series Generation	MohammadReza EskandariNasab *(Utah State University)*, Shah Muhammad Hamdi *(Utah State University)*, Soukaina Filali Boubrahimi *(Utah State University)*
DM347	Towards Generalizable Time Series Forecasting via IB-Regularized Transformer-Diffusion	Dagyeong Na *(Chung-Ang University)*, Jinho Kang *(University of Seoul)*, Junseok Kwon *(Chung-Ang University)*

	S31: Graphs & Learning	
DM762	LHGEL: Large Heterogeneous Graph Ensemble Learning using Batch View Aggregation	Jiajun Shen *(Florida Atlantic University)*, Yufei Jin *(Florida Atlantic University)*, Yi He *(William & Mary)*, Xingquan Zhu *(Florida Atlantic University)*
DM773	Negative-Free Graph Contrastive Learning for Recommendation	Junping Liu *(Wuhan Textile University)*, Mingchao Yu *(Wuhan Textile University)*, Xinrong Hu *(Wuhan Textile University)*, Jie Yang *(University of Wollongong)*, Yi Guo *(Western Sydney University)*, Wanqing Li *(University of Wollongong)*, Wenbin Zhang *(Florida International University)*
DM682	Zero-Shot Cross-City Trajectory Prediction Using Hypernetworks	Jonas Gunkel *(German Aerospace Center)*, Andrea Tundis *(German Aerospace Center)*, Max Mühlhäuser *(Technical University of Darmstadt)*
DM911	One-Pass Multi-Label Learning With Missing Features and Labels	Jun-Tong Wang *(Nanjing University)*, Cun-Yuan Xing *(Nanjing University)*, Wei Gao *(Nanjing University)*
DM918	PULSAR: Advancing Interval-Based Time Series Classification to State-of-the-Art Performance	Nestor Cabello *(The University of Melbourne)*, Lars Kulik *(The University of Melbourne)*
	S32: Applications III	
DM715	Advancing climate model interpretability: Feature attribution for Arctic melt anomalies	Tolulope Ale *(Institute for Harnessing Data and Model Revolution in the Polar Regions, University of Maryland, Baltimore County, Baltimore, MD)*, Nicole-Jeanne Schlegel *(National Oceanic and Atmospheric Administration/OAR Geophysical Fluid Dynamics Laboratory, Princeton, NJ)*, Vandana Janeja *(University of Maryland, Baltimore County)*
DM779	Imitation-Inspired Semantic-Guided Distillation for User-Conditioned Memorability Prediction	Indrajeet Ghosh *(University of Maryland Baltimore County)*, Mohammad Saeid Anwar *(University of Maryland Baltimore County)*, Kasthuri Jayarajah *(New Jersey Insitute of Technology)*, Nirmalya Roy *(University of Maryland Baltimore County)*
DM806	Learning to Retrieve for Environmental Knowledge Discovery: An Augmentation-Adaptive Self-Supervised Learning Framework	Shiyuan Luo *(University of Pittsburgh)*, Runlong Yu *(University of Pittsburgh)*, Chonghao Qiu *(University of Pittsburgh)*, Rahul Ghosh *(University of Minnesota)*, Robert Ladwig *(Aarhus University)*, Paul Hanson *(University of Wisconsin - Madison)*, Yiqun Xie *(University of Maryland)*, Xiaowei Jia *(University of Pittsburgh)*
DM750	AdaSports-Traj: Role- and Domain-Aware Adaptation for Multi-Agent Trajectory Modeling in Sports	Yi Xu *(Northeastern University)*, Yun Fu *(Northeastern University)*
DM832	Hierarchically Disentangled Recurrent Network for Factorizing System Dynamics of Multi-scale Systems: An application on Hydrological Systems	Rahul Ghosh *(University of Minnesota)*, Arvind Renganathan *(University of Minnesota)*, Zachary McEachran *(NOAA National Weather Service)*, Kelly Lindsay *(University of Minnesota)*, Michael Steinbach *(University of Minnesota)*, John Nieber *(University of Minnesota)*, Christopher Duffy *(Pennsylvania State University)*, Vipin Kumar *(University of*

		Minnesota)

S33: Deep Learning II		
DM548	MAC: An Efficient Gradient Preconditioning using Mean Activation Approximated Curvature<td>	Hyunseok Seung *(University of Georgia)*, Jaewoo Lee *(University of Georgia)*, Hyunsuk Ko *(Hanyang University)*
DM739	Efficient Markov Boundary Discovery via Neural Autoregressive Information Gathering	Khoa Nguyen *(Deakin Applied Artificial Intelligence Initiative)*, Bao Duong *(Deakin Applied Artificial Intelligence Initiative)*, Viet Huynh *(Edith Cowan University)*, Thin Nguyen *(Deakin Applied Artificial Intelligence Initiative)*
DM699	Hypergraph Representation Learning with Adaptive Broadcasting and Receiving	Tianyi Ma *(University of Notre Dame)*, Yiyue Qian *(Amazon)*, Zheyuan Zhang *(University of Notre Dame)*, Zehong Wang *(University of Notre Dame)*, Shinan Zhang *(Amazon)*, Chuxu Zhang *(University of Connecticut)*, Yanfang Ye *(University of Notre Dame)*
DM883	ECHO: Effective Coreset-Driven Learning via Hierarchical Optimizations	Alec F. Diallo *(University of Edinburgh)*, Weihe Li *(University of Edinburgh)*, Paul Patras *(University of Edinburgh)*
DM793	When LLM Meets Simplicial Complex: A Novel Graph Prompt Learning on Ethereum Transaction Networks	Yuxin Liu *(University of California, Riverside)*, Stephen Chan *(American University of Sharjah)*, Jeffrey Chu *(Renmin University of China)*, Yuanyuan Zhang *(University of Manchester)*, Yuzhou Chen *(University of California, Riverside)*

S34: Anomaly Detection		
DM723	xLSTMAD: A Powerful xLSTM-based Method for Anomaly Detection	Kamil Faber *(AGH University of Krakow)*, Marcin Pietron *(AGH University of Krakow)*, Dominik Zurek *(AGH University of Krakow)*, Roberto Corizzo *(American University)*
DM734	Incorporating Interactive User Feedback through Precision Matrix Adjustments for High-Dimensional Anomaly Detection	Taylor Dinkins *(Oregon State University)*, Weng-Keen Wong *(Oregon State University)*, Haifeng Chen *(NEC Labs America)*, Yanchi Liu *(NEC Corporation)*, Kai Ishikawa *(NEC Corporation)*
DM459	Trivial Graph Features and Classical Learning are Enough to Detect Random Anomalies	Matthieu Latapy *(Sorbonne University and CNRS)*, Stephany Rajeh *(EFREI Paris-Panthéon-Assas University)*
DM539	Flexible Windowing for Correlation-Aware Ranking in Anomalous Environments	Anwesha Das *(University of Chicago)*, Henry Hoffmann *(University of Chicago)*, Alex Aiken *(Stanford University)*
DM534	Extreme Event Prediction with Hierarchical Knowledge Distillation and Expert Fusion	Quan Li *(Pennsylvania State University)*, Wenchao Yu *(NEC Labs America)*, Suhang Wang *(Pennsylvania State University)*, Minhua Lin *(Pennsylvania State University)*, Lingwei Chen *(Rochester Institute of Technology)*, Wei Cheng *(NEC Labs America)*, Haifeng Chen *(NEC Labs America)*

	S35: Foundations	
DM792	HadaSmileNet: Hadamard fusion of handcrafted and deep-learning features for enhancing facial emotion recognition of genuine smiles	Mohammad Junayed Hasan *(Johns Hopkins University)*, Nabeel Mohammed *(North South University, Dhaka, Bangladesh)*, Shafin Rahman *(North South University, Dhaka, Bangladesh)*, Philipp Koehn *(Johns Hopkins University)*
DM800	Multi-Label Transfer Learning in Non-Stationary Data Streams	Honghui Du *(University College Dublin)*, Leandro Minku *(University of Birmingham)*, Aonghus Lawlor *(University College Dublin)*, Huiyu Zhou *(University of Leicester)*
DM935	EM-Based Transfer Learning for Gaussian Causal Models Under Covariate and Target Shift	Mohammad Ali Javidian *(Appalachian State University)*
DM500	Differentiable Distance Between Hierarchically-Structured Data	Matěj Zorek *(Czech Technical University in Prague)*, Tomáš Pevný *(Czech Technical University in Prague)*, Václav Šmídl *(Czech Technical University in Prague)*
DM438	Bounds on Kappa-Error Diagrams for Diversity Analysis	Krzysztof Grąbczewski *(Institute of Engineering and Technology, Faculty of Physics, Astronomy and Informatics, Nicolaus Copernicus University in Torun)*
	S36: Trustworthiness	
DM489	DP-FedLoRA: Privacy-Enhanced Federated Fine-Tuning for On-Device Large Language Models	Honghui Xu *(Kennesaw State University)*, Shiva Shrestha *(Kennesaw State University)*, Wei Chen *(Nexa AI)*, Zhiyuan Li *(Nexa AI)*, Zhipeng Cai *(Georgia State University)*
DM666	fair-LDP: Uncertainty-Guided Fairness and Privacy for Federated Healthcare Learning	Dian Chen *(Virginia Tech)*, Qi Zhang *(Virginia Tech)*, Lance Kaplan *(US DEVCOM Army Research Laboratory)*, Audun Josang *(University of Oslo)*, Donghyun Jeong *(University of the District of Columbia)*, Feng Chen *(The University of Texas at Dallas, Richardson)*, Jin-Hee Cho *(Virginia Tech)*
DM735	Auditing Approximate Unlearning for Differentially Private Models	Yuechun Gu *(University of Maryland, Baltimore County)*, Jiajie He *(University of Maryland, Baltimore County)*, Keke Chen *(University of Maryland, Baltimore County)*
DM689	DELTA: Variational Disentangled Learning for Privacy-Preserving Data Reprogramming	Arun Vignesh Malarkkan *(Arizona State University)*, Haoyue Bai *(Arizona State University)*, Anjali Kaushik *(Arizona State University)*, Yanjie Fu *(Arizona State University)*
DM718	Mining Trustworthy Symbolic Regression Models in Federated Settings	Mattia Billa *(University of Modena and Reggio Emilia)*, Veronica Guidetti *(University of Modena and Reggio Emilia)*, Luca La Rocca *(University of Modena and Reggio Emilia)*, Federica Mandreoli *(University of Modena and Reggio Emilia)*

Day 1: Wednesday, November 12, 2025 — Workshops

Time	Workshop Title	Host(s)
08:30 – 17:30	W2: Trust4ML: Trustworthy Machine Learning for Fair, Private, Robust, and Explainable Decision-Making Workshop	Huaming Chen
08:30 – 17:30	W3: Workshop of Artificial Intelligence for Time Series Analysis (AI4TS)	Yifeng Gao
08:30 – 12:30	W4: Mental Health Disorder Detection on Social Media (MHSM 2025) Workshop	Jun Li
08:30 – 12:30	W5: 1st Workshop on Computational Gastronomy (CoGamy): Data Science for Food and Cooking	Andrea Vitaletti
08:30 – 12:30	W6: Workshop on Synergy of AI and Multimodal Biomedical Data Mining (SAMBio)	Haoteng Tang, Lu Zhang
08:30 – 12:30	W7: Workshop on Multimodal Search and Recommendations (MMSR) Workshop	Aditya Chichani
08:30 – 12:30	W9: Workshop on Grounding Documents with Reasoning, Agents, Retrieval, and Attribution (RARA) Workshop	Manan Suri
08:30 – 12:30	W10: Data Mining for Service (DMS 2025) Workshop	Katsutoshi Yada
08:30 – 12:30	W11: The First International Workshop on Resilient Artificial Intelligence for Manufacturing Workshop	Ran Jin
08:30 – 12:30	W12: 11th Workshop on Data Mining in Earth System Science (DMESS 2025)	Forrest M. Hoffman
08:30 – 12:30	W13: Interactive and Scalable Information Retrieval Methods for E-Commerce (ISIR-eCom)	Linsey Pang

08:30 – 12:30	W14: International Workshop on Foundation Models for Biology and Bioinnovation	Amin Beheshti
08:30 – 12:30	W15: AI for Computational Social Science	Zhao Wang
13:30 – 17:30	W16: Open World Anomaly Detection in Dynamic and Evolving Environments (OWAD)	Roberto Corizzo
13:30 – 17:30	W17: The 9th Workshop on Graph Techniques for Adversarial Activity Analytics (GTA3)	Jiejun Xu
13:30 – 17:30	W18: 5th IEEE International Workshop on Multimodal AI (MMAI 2025)	Kaiqun Fu
13:30 – 17:30	W19: Data Mining for Ambient Intelligence and Secure Communications (DM-AISC)	Quazi Mamun
13:30 – 17:30	W20: Visionary Innovation in Standards and Technology of GenAI (VISTA)	Denghui Zhang
13:30 – 17:30	W21: International Workshop on Adaptable, Reliable, and Responsible Learning (ARRL)	Yi He
13:30 – 17:30	W22: The first Workshop on Large Language Models for Advanced Clustering Techniques (LLM4Cluster)	Ye Wei
13:30 – 17:30	W23: The 2nd Workshop on Information Seeking with Big Models (BigIS)	Zheng Wang
13:30 – 17:30	W24: IEEE ICDM 20th International Workshop on Spatial and Spatiotemporal Data Mining (SSTDM-2025)	Krishna Karthik Gadiraju
13:30 – 17:30	W25: International Workshop on AI for Nudging and Personalization (WAIN)	Christopher Symons
13:30 – 17:30	W8: The 8th IEEE Workshop on Benchmarking, Performance Tuning and Optimization for Big Data Analytics and Big Models (BPOD)	Zhiyuan Chen

Day 2: Thursday, November 13, 2025 — Workshops

Time	Workshop Title	Host(s)
10:30 – 17:30	W1: AI-ready data for science discovery (ADSD)	Pengfei Wang
10:30 – 17:30	W33: Workshop on Data Mining for Reliable Decision-Making (RDM)	Haotian Wang
10:30 – 17:30	W39: Sentiment Elicitation from Natural Text for Information Retrieval and Extraction (SENTIRE)	Donghao Huang
10:30 – 17:30	W23: 1st Workshop on the Use of Large Language Models for Cyber Security (LLM4Sec)	Antonino Rullo
10:30 – 17:30	W40: User Modeling and Recommendation (UMRec)	Yanghao Xiao

Day 3: Friday, November 14, 2025 — Workshops

Time	Workshop Title	Host(s)
10:30 – 12:30	W26: The 12th workshop for high dimensional data mining (HDM)	Aman Shukla
10:30 – 12:30	W27: Graph-Augmented LLMs: Bridging Language and Structured Knowledge (GaLM)	Steve Huntsman
10:30 – 12:30	W28: Neverending Machine Learning (NML)	Michal Wozniak
14:00 – 17:00	W29: Workshop on AI for Financial Crime Fight (AI4FCF)	Nikhil Jha
14:00 – 17:00	W30: The 5th Machine Learning for Cybersecurity (MLC), 2025	Atousa Arzanipour, Rouzbeh Behnia
14:00 – 17:00	W31: The 1st International Workshop on Data Mining and AI for Law (DMAIL), 2025	Jiangping Chen
14:00 – 17:00	W32: 3rd International Workshop on Data Mining in Finance (DMF2025)	Shuoling Liu

Time	Workshop Title	Host(s)
14:00 – 17:00	W34: Data Mining in Biomedical Informatics and Healthcare (DMBIH'25)	Mohammad-Reza Siadat

Day 4: Saturday, November 15, 2025 — Workshops

Time	Workshop Title	Host(s)
14:00 – 17:30	W48: 1st International Workshop on Realistic Robustness and Generalization in Data Mining (RRoG-DM)	Kaizhu Huang

Tutorial Sessions

Nov. 13, 2025, Thursday		
Data Security and Privacy in Machine Unlearning: Recent Advances, Challenges, and Future Perspectives	Aobo Chen, Wei Qian, Zheyuan Liu, Shagufta Mehnaz, Tianhao Wang, Mengdi Huai	10:30 am - 12:30 pm
AI-Driven Multimodal Frameworks for Healthcare Decision-Making	Jiaming Cui, Xuan Wang, Zhe Zeng, Hongru Du	10:30 am - 12:30 pm
Geospatial Foundation Models: Algorithms and Applications	Ranga Raju Vatsavai	2:00 pm - 3:50 pm
Federated Stochastic Compositional and Bilevel Optimization	Hongchang Gao, Xinwen Zhang	2:00 pm - 3:50 pm
Uncertainty Quantification and Mitigation in Large Language Models	Longchao Da, Xiaoou Liu, Hua Wei	4:10 pm - 6:00 pm
Behavior-Aware Data Valuation for LLMs at Scale	Zhaozhuo Xu, Huawei Lin, Weijie Zhao, Denghui Zhang	4:10 pm - 6:00 pm
Nov. 14, 2025, Friday		
Time Series Analysis Unraveled: Motifs, Forecasting, and Explainability	Jessica Lin, Panagiotis Papapetrou, Li Zhang	10:30 am - 12:30 pm
AI for Precision Medicine: Integrative Analysis of Histopathology Images and Spatial Omics	Ninghui Hao, Boshen Yan, Dong Li, Chen Zhao, Guihong Wan	10:30 am - 12:30 pm
Fairness in Language Models: A Tutorial	Zichong Wang, Avash Palikhe, Zhipeng Yin, Wenbin Zhang	1:30 pm - 3:20 pm
Responsible GenFMs: From Foundational Principles to Real-World Impact	Yue Huang, Canyu Chen, Lu Cheng, Bhavya Kailkhura, Manling Li, Xiangliang Zhang	1:30 pm - 3:20 pm
Explaining the "Unexplainable" Large Language Models	Zhen Tan, Song Wang, Jing Ma, Jundong Li, Huan Liu	3:40 pm - 5:30 pm

Multiple Clustering: From Classical Foundations to Interactive, User-Guided Methods	Jiawei Yao, Juhua Hu, Jian Pei	3:40 pm - 5:30 pm
Nov. 15, 2025, Saturday		
Computational Pathology Foundation Models: Datasets, Adaptation Strategies, and Evaluations	Dong Li, Ninghui Hao, Xintao Wu, Guihong Wan, Chen Zhao	10:30 am - 12:30 pm

2025 Symposium for Undergraduate Research in Data Science, Systems, and Security (REU Symposium 2025), Wednesday, November 12

Room: South American B

Workshop Chairs: Jianwu Wang, Xuechen Zhang, Xiaokun Yang, Xinghui Zhao, Matthias K. Gobbert

Workshop website: https://bigdatareu.umbc.edu/reu-symposium/reu-symposium-2025/

Time (US Eastern Time)	Title	Authors
	Session 1: LLM and Nature Language Processing, Session Chair: Xuechen Zhang	
9:00-9:15	S02210: PubMedRAG: Retrieval-Augmented Generation for Biomedical Question Answering	Hamsini Gupta, Aswini Sivakumar, Yao Qiang, and Huirong Fu
9:15-9:30	S02204: Can a Large Language Model Win a Kaggle Competition?	Illya Gordyy, Estevan Rendon Jr., Niful Islam, Mohammad Wardat, and Huirong Fu
9:30-9:45	S02209: InfectPrompt: Inducing Vulnerabilities in C/C++ Functions Using LLMs for GNN-based Vulnerability Detection	Joelle Dizon, Lauren Kwon, Caden Hicks, Ekincan Ufuktepe, Prasad Calyam, and Kannappan Palaniappan
9:45-10:00	S02223: Using stance detection models to improve our understanding of the firearm policy debate on social media	Imani Allah, Camden Baucom, Jelani Beaugris, Chloe Bogen, Rylee Brown, John Cheek, Kathleen Higgins, Erin Kendall, Charles Prince, Unzila Sakina, Riley Stacy, Sultana Yeasmin, Mohamed Ahmed, Rebecca Ansell, and Lisa Singh
10:00-10:30	**Coffee Break**	
	Session 2: Machine Learning, Session Chair: Xiaokun Yang	
10:30-10:45	S02201: Change Detection and Land Cover Classification of Flooded Regions in UAVSAR Imagery Using Deep Learning	Kevin Tang, Christopher Pena Gonzalez, Nami Lieberman, Samantha Lee, Yuanwei Jin, and Enyue Lu
10:45-11:00	S02205: Data-Driven Predictive Modeling of Microfluidic Cancer Cell Separation Using a Deterministic Lateral Displacement Device	Elizabeth Chen, Andrew Lee, Md Tanbir Sarowar, and Xiaolin Chen
11:00-11:15	S02212: Revisiting Vital Signs Inference Across Subjects with COTS mmWave Radar	Areesh Sobhani, Qiuye He, and Yugyung Lee
11:15-11:30	S02214: Large-Scale Optimizations in Proton Beam Radiotherapy by Neural Network Denoising of Robust Simulated Patient Data	Angelo Calingo, Bikash Gautam, Peter Jin, Sidhya Pathak, Michelle Zhao, Hussam Fateen, Harrison Lewis, Matthias Gobbert, Vijay Sharma, Lei Ren, Ananta Chalise, Stephen Peterson, and Jerimy Polf
11:30-11:45	S02215: Accelerating Deep-Learning Applications with Efficient Tensor Layout Management	Keenan Powell, Rubayet Rongon, Xiaokun Yang, and Xuechen Zhang
11:45-12:00	S02216: Context-Aware Linking of Text Documents for Thematic Tracing	James Wallace, Saad Hussaini, and Mario M Kubek

Time	Title	Authors
12:00-12:15	S02217: Periodicity-Enforced Neural Network for Designing Deterministic Lateral Displacement Devices	Andrew Lee, Mahir Mobarrat, and Xiaolin Chen
12:15-12:30	S02218: Deep Learning Approaches for Cloud Property Retrieval: Comparing Foundation Model Fine-Tuning with Training from Scratch	Danielle Murphy, Kevin Zhang, Caleb Parten, Autumn Sterling, Haoxiang Zhang, Xingyan Li, Jordan Caraballo-Vega, Jie Gong, Mark Carroll, and Jianwu Wang
12:30-14:00	**Lunch Break**	
	Session 3: Machine Learning, Session Chair: Matthias K. Gobbert	
14:00-14:15	S02219: Deep Learning for Modeling and Dispatching Hybrid Wind Farm Power Generation	Zach Lawrence, Jessica Yao, and Chris Qin
14:15-14:30	S02220: A Comparative Analysis of Object Detection Models for Plant Leaf Counting under Overlapping Foliage Conditions	Elijah Sagaran, Martin Ha, Olena Molla, Shanlin Qian, Rahi Misra, Mario Giraldo, Rashida Hasan, Li Liu, and Xunfei Jiang
14:30-14:45	S02221: When Splits Matter: Interpreting Disaster Tweet Classification Models	Jamie Livers, Nicholas Johnson, Kyle Spurlock, and Olfa Nasraoui
14:45-15:00	S02222: Mitigating Catastrophic Forgetting Using Improved Clustering-based Episodic Memory	Owen Beabout, Abigail Dodd, Titus Murphy, and Enyue Lu
15:00-15:15	S02224: Leveraging Hybrid Representations for Robust Molecular Property Prediction in Low-Data Regimes	Alex Liu, Haomin Zhuang, Olaf Wiest, Ying Cheng, and Xiangliang Zhang
15:15-15:30	S02225: CRISIS: Classification of Response Intent via Social Media for Improved Support	Joseph Schmidt, Antony Romano, Ademola Adesokan, and Sanjay Madria
15:30-15:45	S02226: Multimodal Learning with Intermediate Fusion for Enhanced Arrhythmia Classification	Melissa Matteo, Mahjabeen Abed, and Xinghui Zhao
15:45-16:00	S02213: Parameterized Hardware Generation for Mini-Float Summation-of-Absolute-Differences for AdderNet based CNN Models	Spencer Buchanan, Cameron DiSomma, Jose Ramos, Yunxiang Zhang, Wenfeng Zhao, and Xiaokun Yang
16:00-16:30	**Coffee Break**	
	Session 4: Security and Systems, Session Chair: Xinghui Zhao	
16:30-16:45	S02202: Evaluating the Robustness of Invisible Watermarking Against Adversarial Attacks	Cat Lewin, Rui Duan, and Yugyung Lee
16:45-17:00	S02206: Trust-Aware Task Allocation with Quantum Optimization in Adversarial Multi-Agent Systems	Giselle Roman Barroso, Duy Ho, Luke Miller, Ahmed Alanazi, and Yugyung Lee
17:00-17:15	S02207: Resilient Multi-Agent Task Allocation through Trust-Aware Quantum-Inspired Optimization	Joseph Ko, Jaydine Stiles, Ahmed Alanazi, Luke Miller, Duy Ho, and Yugyung Lee
17:15-17:30	S02211: Hardware Generation for Quantum Gate Emulation and Acceleration	Jeremy Turner, Cameron DiSomma, Xuechen Zhang, Lei Fan, and Xiaokun Yang
17:30-17:45	S02208: GEM-Style Constraints for PEFT with Dual Gradient Projection in LoRA	Brian Tekmen, Jason Yin, and Qianqian Tong

Undergraduate and High School Symposium

Paper ID	Title	Authors
UH1		
S01287	Can Small Quantized VLMs Drive? An Experimental Evaluation of Small Quantized VLMs for Autonomous Driving	Samson Mathew (Hofstra University); zonghua Gu (Hofstra University)
S01286	Data Insights into Teen Consumer Trends: From Kaggle to Knoxville	Caroline Zhao (Farragut High School); Chuanren Liu (University of Tennessee)
S01285	An Empirical Approach Toward Understanding the Impact of Essential Oils on Alzheimer's Disease Progression	Praislin Peter (Rochester Institute of Technology); Rema Amawi (Rochester Institute of Technology); Khalil Al-Hussaeni (Rochester Institute of Technology); Naglaa Ashmawy (Dubai Medical University)
S01242	Assessing Bias Within Diabetes Risk Prediction in Machine Learning Techniques	Ayesha Faruki (Mentor High School)
S01241	Heatwaves and Health Risks in New York City	Amanda Liang (Ward Melville High School); Sarah Wu (Ward Melville High School)
S01282	Interpretable Feature Mining for AI Product Design	Sophia Sun (Carnegie Mellon University); Vivian Foutz (Western Albemarle High School); Icey Xue (University of Science and Technology of China)
S01281	QuizWhiz: An End-to-End AI-Powered Educational Platform for K-12 Intelligent Tutoring and Teaching Analytics	Haiyi Liu (Beijing No.166 High School); Yifang Qin (School of Computer Science, Peking University); Ming Zhang (School of Computer Science, Peking University)
UH2		
S01280	Early Wildfire Detection with UAVs using a Frame Difference Method	Jerod Zhao (Skyview High School); Brian Hong (Washington State University)
S01279	FS-PREM: A Physics-Aware Framework for Predicting Port Disruption	Shriraghav Ashok (Future Impact Initative; BASIS Peoria High School)
S01278	Privacy-First Triage Classification with Open-Weight LLMs: A Chain-of-Thought Distillation Approach	Zeyuan Zhao (Montgomery Blair High School); Yexiao He (University of Maryland); Ang Li (University of Maryland)
S01277	DETECT: Data-Driven Evaluation of Treatments Enabled by Classification Transformers	Yuanheng Mao (Belmont High School); Lillian Yang (Lexington High School); Ethan Shao (Lexington High School); Stephen Yang (Lexington High School); Zihan Li (University of Massachusetts Boston)
S01276	SmartPharynx: A Camera-Based Smartphone System for Screening of	Srikar Kovvali (Westfield High School)

	Bacterial Pharyngitis with a Low-Shot CycleGAN and Custom CNN	
S01275	An Analysis of Gender-Based Differential Item Functioning in the PISA 2018 and 2022 Cycles	Isabel Xiong (Washtenaw International High School)
S01274	A Critical Analysis of a Multi-Input CNN Architecture for Quantum-Enhanced Forecasting	Ateef Mahmud (University of Maryland, College-Park)
UH3		
S01273	Towards Robust Anomaly Detection in Fish Behavior: Hybrid LLM–ML Ensembles and Federated Learning	Swetha Balaji (Company); Rowan Amanna (Vanderbilt University); Ellen Wei (Cox Mill High School); Qiong Cheng (University of North Carolina at Charlotte)
S01271	Transforming Color Correction for Colorblindness with Hydrodynamic Modeling and Deep Learning-Based Validation	Lucas Yang (Parkland High School); Heng Tan (Lehigh University); Yu Yang (Lehigh University)
S01269	Comparative Analysis of GraphCast and the Global Forecast System Using Real-Time Mesoscale Analysis	Jonathan Yu (Millburn High School); Jesse Yu (Millburn High School)
S01267	Learning for Inflation Forecasting with Dynamic Feature Spaces	Zakariyya Scavotto (Stevens Institute of Technology); Xiaoxue Han (Stevens Institute of Technology); Yue Ning (Stevens Institute of Technology)
S01264	Predicting Residual Cognitive Deficit Post-Ischemic Stroke: An Imbalance-Aware Machine Learning Pipeline on EHR Data	Sirichandana Yakkala (Chantilly High School); James Egenrieder (Virginia Tech College of Engineering)
S01263	A ResNet and ViT-U-Net Hybrid Model for Accurate FVM Flooding Simulations	Isabella Cho (Orange County School of the Arts)
UH4		
S01262	AI-Assisted Safe Drop Zone Identification for Human-Guided Drone Deliveries	Atharva Kakatkar (John Champe High School)
S01261	Adaptive Execution Scheduler for DataDios SmartDiff	Aryan Poduri (DataDios)
S01260	Contrastive Retrieval Augmented In-Context Learning for Medical Classification Tasks with Imbalanced Data	Swarnika Joshi (Scottish High International School); Kshitij Jadhav (Indian Institute of Technology Bombay)
S01258	Graph Perspective on Multi-modal Mouse Neural Data and Behavior Analysis	Wenhao Hu (Nanchang University (Undergraduate Student)); Junyi Zhang (University of North Carolina at Chapel Hill); Jin Zhao (Nanchang University); Zichen Xu (Nanchang University); Chengbin Hu (Nanchang University); Pinye Wang (Nanchang University)

S01257	Efficient Semantic-based Video Segment Querying	ziqi Zhou (Nanchang University (undergraduate student)); hongming Chen (High School Affiliated To Nanchang University); chenhe Zhang (Nanchang No.2 Middle School); chenrui Wu (The Attached Middle School To Jiangxi Normal University); Zichen Xu (Nanchang University)
S01256	Enhancing Radiographic Disease Detection with MetaCheX, a Context-Aware Multimodal Model	Nathan He (Ocean Lakes High School); Cody Chen (Los Gatos High School)
UH5		
S01255	Statistical Mining of Patient Reviews for Geographic Insights on Quality of Urological Care: A Pilot Study	Max Yu (Atholton High School); Anuththari Gamage (Johns Hopkins University); Junjie Luo (Johns Hopkins University)
S01254	Enhancing On-Chip Learning for RRAM Devices Through Evolutionary Theories	Mellanie Martin (Washington State University); Abdi Yamil Vicenciodelmoral (Washington State University); Xinghui Zhao (Washington State University)
S01253	Application of Object Segmentation Model in Contact Angle Measurement for Hydrophobicity Determination	Joann Xie (Del Norte High School); Charita Potluri (Scripps Ranch High School); Farah Chen (St. Cecilia Academy); Rand Kingsford (Materials Research Science and Engineering Center University of California San Diego); Ashley Tamura (Materials Research Science and Engineering Center University of California San Diego); Shreena Dayal (Department of Chemical and Nanoengineering University of California San Diego); Michael Sailor (University of California San Diego)
S01252	Hybrid BiLSTM-RF Framework for Lithium-ion Battery State of Health and RUL Prediction	Irene Lu (Arnold O. Beckman High School); Kaiwen Zhao (University High School); Emily Liu (Del Norte High School); Mandy Hung (Del Norte High School); Richard Song (Canyon Crest Academy); Chris Lin (Canyon Crest Academy); Andrew Cha (Mililani High School); Yingying Zou (Department of Mechanical and Aerospace Engineering, University of California, San Diego); Linda Shi (Institute of Engineering in Medicine, University of California, San Diego)
S01251	Uncertainty Quantification in Deep Learning based Breast Cancer Diagnosis using Dynamic Contrast Enhanced MRI (DCE-MRI) and Treatment Response Assessment Maps (TRAMs)	Jerry Wang (Plano West Senior High School); Bowen Jing (Department of Radiation Oncology UT Southwestern Medical Center); Baowei Fei (Department of Bioengineering UT Dallas)
S01250	MetaRef: A Generalizable Physics-Aware Refinement Framework for Metamaterial Design	Alexander Lu (Thomas Jefferson High School for Science and Technology); Wangzhi Zhan (Virginia

		Tech); Jianpeng Chen (Virginia Tech); Dawei Zhou (Virginia Tech)
UH6		
S01249	Few-Shot Learning Meets Large Language Models: Mining Medicine Interventions From Reddit	Caroline Fu (Thomas Jefferson High School for Science and Technology); Max Ritter (Thomas Jefferson High School for Science and Technology); Shengze Diao (Beijing No. 8 High School); Fang Jin (George Washington University)
S01248	Assessing Cognitive Biases in LLMs for Judicial Decision Support: Virtuous Victim and Halo Effects	Sierra Liu (Millburn High School)
S01246	FinFraud-LLM: Exploring Large Language Models for Financial Fraud Detection	Johnson Chen (Rochester Adams High School); Joshua Quintano (Oakland University); Yao Qiang (Oakland University)
S01245	Can Reasoning LLMs Eliminate Conformity in Multi-Agent Systems?	Alina Liu (The Ohio State University); Chris Hill (Columbus Academy); Jiachen Jiang (The Ohio State University); Zhihui Zhu (The Ohio State University)
S01244	Echo State Networks in Reservoir Computing: Foundations, Benchmarks, and Applications to Next-G Wireless Communication	Andrew Liu (Thomas Jefferson High School for Science and Technology); Chunxiao Lin (Department of Electrical and Computer Engineering - Virginia Tech); Daniel Rosen (Department of Electrical and Computer Engineering - Virginia Tech); Yang Yi (Department of Electrical and Computer Engineering - Virginia Tech)
S01243	Interpretable Deep Learning Framework for the Diagnosis of Age-Related Macular Degeneration from Retinal Fundus Images	Anvitaa Rudharraju (Westfield High School)
DM556	Explainable Skill Acquisition over Time via GraphRAG-Augmented Mastery Features, Fuzzy Clustering, and Hybrid Deep Models	Rahul Das (University of North Carolina at Charlotte); Qiong Cheng (University of North Carolina at Charlotte); Ellen Wei (Cox Mill High School); Swetha Balaji (University of North Carolina at Charlotte); Rowan Amanna (University of North Carolina at Charlotte)
UH7		
S01284	Multi-optimizer Deep&Cross at Industrial Scale	Mark znidar (Unviersity of Oxford); Blaz Skrlj (Teads); Yonatan Karni (Teads); Assaf Klein (Teads)
S01283	Multi-Modal Embedding Fusion for Scalable Context-First CTR	Mark znidar (Unviersity of Oxford); Blaz Skrlj (Teads); blaz mramor (Teads); Natalia Silberstein (Teads); Anze Alic (Teads); Martin Jakomin (Teads)

S01240	A Deep Learning Approach for Reaction-Diffusion-Advection Modeling of Vegetation-Desertification Patterns	Aritro Chatterjee (Dubai College)
S01239	Dynamics of Fencer Rating Progression	Ethan Xu (Lexington High School)
S01238	ESN-DAGMM: A Lightweight Framework for Unsupervised Time-Series Data Monitoring in 5G O-RAN Networks	Andrew Chen (Canyon Crest Academy); Raymond Zhao (Virginia Tech); Lingjia Liu (Virginia Tech)
S01237	Deep Gaussian Fusion Network for Traffic Prediction	andrew meng (Mississippi School for Mathematics and Scienc); Zhiqian Chen (Mississippi State University, Mississippi State)
S01236	Quantifying Biopharma Alliance Fragility Using a Strategic Shock Risk Index (SSRI)	Rhea Zhou (Cary Academy)
UH8		
S01235	Do You Know What I Mean? Testing the Prompt Robustness of an LLM-Powered IoT System	Xingguo Ding (St. Paul's School); Yiran Chen (Duke University)
S01234	Interactive 3D Spine Modeling for Enhanced Doctor-Patient Communication and Health Literacy	Christian Jin (Stratford Prepatory); Stanley Zhan (None)
S01233	AI or humans: Who understands online emotions Better?	Victor Tang (Ocean Lakes High School); Lan Cao (Old Dominion University)
S01232	Mining Mobile Point-of-Interest Visit Data for Socioeconomic Insights	Amy Ma (Hunter College High School); Natasha Foutz (University of Virginia)
S01231	An Agentic Framework for Social Event Forecasting: Approaches using Causality Contextualized Chain of Thought	Avani Thakur (Saint Francis High School); Aditya Narasimhan Sampath (University of North Caroline at Charlotte); Siddharth Krishnan (University of North Caroline at Charlotte)
S01230	Data-Driven Weakly-Supervised Methods Successfully Denoise Diverse Biomedical Imaging Modalities	Reeti Rout (John P. Stevens High School, Edison, NJ)
S01229	Lost in Transcription: Influence of Dialect on Whisper's Performance	Helen Qin (Thomas Jefferson High School for Science & Technology, Alexandria, VA)
UH9		
DM314	Benchmarking LLMs and Distributed Approaches for Anomaly Detection	Ellen Wei (Cox Mill High School); Swetha Balaji (University of North Carolina at Charlotte); Rowan Amanna (University of North Carolina at Charlotte); Qiong Cheng (University of North Carolina at Charlotte)
S01228	Grounded Chest X-Ray Reasoning: Leveraging Visual Tools to Improve Medical Multimodal LLMs	Duan Wang (North Carolina School of Science and Mathematics); Peng Xia (University of North Carolina at Chapel Hill); Huaxiu Yao (University of North Carolina at Chapel Hill)

S01227	Bringing Optimization to Everyone: Exploring LLMs as a Tool for Non-Experts and Students	Winston Zhang (Quarry Lane High School); Mia Lu (Saint Francis High School)
S01226	Deep Learning to Denoise and Segment Air Pollutant Plumes	Daniel Li (National Space Club Foundation); Can Li (Atmospheric Chemistry & Dynamics Lab, Goddard Space Flight Center); Nickolay Krotkov (Atmospheric Chemistry & Dynamics Lab, Goddard Space Flight Center)
S01224	EEG EyeNet: Strong, Insightful Baselines for Eye-Movement Prediction from EEG	Christian Jin (Stratford Prepatory); Xiaodong Qu (George Washington University)
S01223	Automated Analysis of Astrocyte Cell Connectivity after Laser Ablation Using Machine Learning and Path-Finding Algorithms	Connor Lee (Palo Alto High School); Arthon Greenspan (University of California, Santa Cruz); William Chang (Northwestern University); Veronica Gomez-Godinez (University of California, San Diego); Linda Shi (University of California, San Diego)
S01222	Predicting Vertical Cloud Type Structure with GOES-ABI Multi-Channel Passive Satellite Imagery Data Using a Deep Learning Approach and a Foundation Model Approach	Sidh Jaddu (Thomas Jefferson High School for Science and Technology); Jordan Caraballo-Vega (NASA Goddard Spaceflight Center); Jie Gong (NASA Goddard Spaceflight Center)
UH10		
S01221	Multimodal Foundation Models as Router Models for High-Resolution Aerial Image Segmentation	Cooper Li (Montgomery Blair High School); Zhihao Wang (University of Maryland); Yiqun Xie (University of Maryland)
S01220	Forecasting U.S. Recessions with Machine Learning: Evidence from Ten Economic Indicators, 1978–2025	Neel Dhuruva (American Heritage School Broward)
S01219	C-Reactive Protein Induces Endothelial Cell Dysfunction and Replication Stress	Jay Peng (North Carolina School of Science and Mathematics); Feifei Wang (University of North Carolina at Chapel Hill)
S01218	Systematic Comparison of Artifact Removal Techniques for Reliable Feature Extraction from scTS-Contaminated EMG	Vivian Li (Princeton International School of Mathematics and Science); Manikandan Ravi (Tim and Caroline Reynolds Center for Spinal Stimulation, Kessler Foundation); Manan Anjaria (Tim and Caroline Reynolds Center for Spinal Stimulation, Kessler Foundation); Akhil Bheemreddy (Tim and Caroline Reynolds Center for Spinal Stimulation, Kessler Foundation); Gail Forrest (Tim and Caroline Reynolds Center for Spinal Stimulation, Kessler Foundation)
S01217	Graph-LLM for EHRs: Combining Temporal Graph Representations and LLM-Based Note Imputation for Clinical Predictions	Michael Liu (Mission San Jose High School); Qi Long (University of Pennsylvania, Department of Biostatistics, Epidemiology and Informatics); Inyoung Choi (University of Pennsylvania,

		Department of Computer and Information Science)
S01216	LLMSeqRec: LLM Enhanced Contextual Sequential Recommender	Connor Lee (NYU); Bin Dong (National Lawrence Berkeley Lab); Linsey Pang (PayPal)

UH11		
S01215	Benchmarking the Code Generation Capabilities of Popular Large Language Models for Front-End Web Development	Dron Datta (Adlai E. Stevenson High School)
S01214	Persona-Driven LLM Interaction in Stock Market Simulations	Medhashree Parhy (Purdue University); Dan Goldwasser (Purdue University)
S01213	Evaluating the Effectiveness of Persona Simulation in Opinion Prediction with GPT-4.1	Sarah Li (McLean High School); Ziyu Yao (George Mason University)
S01212	AI-Powered Trait Analysis for Poisonous Mushroom Classification	Srikar Akundi (Chantilly High School)
S01211	Machine Learning-Based Classification of Transcriptional Gene Groups for Cancer Prognosis	Annie Wu (Newark Academy (High School))
S01210	Performance Evaluation of Convolutional Neural Networks in Image-Based Malware Classification	Raymond Jiang (Carnegie Mellon University); Abdullah Irfan Siddiqu (California State Polytechnic University at Pomona); Srijit Bhattacharya (California State Polytechnic University at Pomona); Mohammad Husain (California State Polytechnic University at Pomona)

UH12		
S01208	Signature vs. Substance: Evaluating the Balance of Adversarial Resistance and Linguistic Quality in Watermarking Large Language Models	William Guo (Illinois Math and Science Academy); Ana Smith (MIT Lincoln Laboratory); Adaku Uchendu (MIT Lincoln Laboratory)
S01207	Hyperspectral Band Selection with Learnable Weights for Efficient Glioblastoma Detection	Albert Li (Westview High School); Jacob Wu (Del Norte High School); Li Lei (Department of Pathology, University of California, San Diego); Linda Shi (Institute of Engineering in Medicine, University of California, San Diego); Fei Xia (Department of Electrical Engineering and Computer Science, University of California, Irvine)
S01206	Dimension Reduction Enhanced Boosting for Imbalanced Data Classification	Eric Wang (Vestavia Hills High School); Jason Parton (The University of Alabama)
S01204	Probabilistic Prompts for Zero-shot and Few-shot Large Language Models: An Empirical Study of Patient-reported Outcomes	Matthew W. Chen (Department of Radiation Oncology, University of Kansas Medical Center); Yang Yan (School of Computing, Southern Illinois University); Xinglei Shen (Department of Radiation Oncology, University of Kansas Medical

		Center); Hao Gao (Department of Radiation Oncology, UT Southwestern Medical Center); Zhong Chen (School of Computing, Southern Illinois University)
S01203	Quantitative Assessment on the Impact of Music on Athletic Performance: A Correlation between Music and Performance Confidence in Squash	Angela Du (Princeton Day School)
S01201	Predicting Relationship Stability Using Communication Patterns	Deepak Gahalot (Sardar Patel Institute of Technology (SPIT) Mumbai); Harshil Vasani (Sardar Patel Institute of Technology (SPIT) Mumbai)

BlueSky Track

Paper ID	Title	Authors
Room: South America B, Friday, November 14, 2025		
S47204	Truth Without Comprehension: A BlueSky Agenda for Steering the Fourth Mathematical Crisis	Runlong Yu and Xiaowei Jia
S47211	Toward Generalizable, General-Purpose, and Multimodal Knowledge Editing for Foundation Models	Haoyu Wang, Tianci Liu, Fenglong Ma, and Jing Gao
S47213	Navigating Between Explainability and Extractability in Machine Learning as a Service	Ojas Nimase, Yue Zhao, and Yushun Dong
S47214	Dynamic, Efficient, and Generalizable Multi-Agent Communication for Large Language Models	Song Wang and Jundong Li
S47215	The End of Trial-and-Error: A Vision for Generative Intelligence in Metamaterial Design	Adithya Kulkarni, Haohui Wang, Wangzhi Zhan, Jianpeng Chen, and Dawei Zhou
S47216	Toward Interpretable and Reliable Time Series Reasoning: A BlueSky Vision	Kanghui Ning, Zijie Pan, Yushan Jiang, Anderson Schneider, Yuriy Nevmyvaka, and Dongjin Song

International Spy Museum

Banquet Menu: A Culinary Journey
宴會菜單：美味之旅

凉菜 Cold Dishes
麻辣牛肉干 Hot & Numbing Beef Jerky
香油拌鲜腐竹 Sesame tofu Skin Salad
卤水鲜墨鱼 Braised Squid
海藻蜇皮北极贝 Seaweed with Surf Clam
手撕Amish 土鸡 Shredded Braised Chicken
桂花糯米糖藕 Osmanthus Honeyed Lotus Roots

小吃 Snacks
蔬菜锅贴 Pan-Fried Vegetable Dumplings
鲜虾烧麦 Shrimp Dumplings
红油鸡肉抄手 Chili Chicken Wontons
（猪肉﹐牛肉）夹馍 Lotus Root Sandwich (Pork or Beef)

大菜 Main Dishes
北京烤鸭（30只）Beijing Duck
年糕炒姜葱龙虾 Ginger Scallion Lobster with Rice Cake
葱扒海参狮子头 Sea Cucumber with Lion's Head Meatballs
招牌香辣鸡大翅 Fragrant Spicy Chicken Wings
中式孜然羊排 Cumin Lamb Chops
京葱爆炒和牛 Beef with Scallion & Onions
清蒸欧洲鲈鱼 Steamed Whole Branzino
鲜贝烤美式甘蓝 Scallops with Brussels Sprouts
贵妃杂菌素豆腐（素）Empress Vegetarian Tofu
鲜香菇扒菜芯 Shiitake Mushroom with Bok Choy

主食 Main Courses
扬州海鲜炒饭 Yangzhou Fried Rice
什锦蔬菜捞面 Combination Lo Mein

DESSERT BUFFET

RED BERRY & DRAGON FRUIT TEMPTATION (NF, V)
Vegan Vanilla Bean Tart, Tropical Fruit Mousse, Dragon Fruit
Berry Cream & Charcoal
Coral Tuile

MATCHA GREEN TEA DESSERT CUP (NF)
Matcha Mousse, Vanilla Bean Crumble, Fresh Raspberries

YUZU CRÈME BRÛLÉE (NF, GF)
Yuzu Infused Crème Brûlée, Caramelized Sugar Topping

THE GOAT (NF)
Goat Cheesecake, Gingersnap Crust, Roasted Figs & Golden
Honey Crumble

CHOCOLATE BARK TRIO (NF)
S'mores, White Chocolate Raspberry & Dark Chocolate Salted
Toffee Bark

ALCOHOLIC BEVERAGE

Beer & Wine Bar Featuring:
- Corona Light
- Blue Moon
- Stella Artois
- 7 Locks Craft Pilsner
- St. Johns Bay Sauvignon Blanc
- Pierres Blanches Chardonnay