

# Virtual Conference

# KDD 2021

August 14<sup>th</sup> - 18<sup>th</sup>

<u>DAY / DATE</u>	<u>BEGIN TIME</u> (PDT)	<u>END TIME</u> (PDT)	<u>DAY (SGT)</u>	<u>BEGIN TIME</u> (SGT)	<u>END TIME</u> (SGT)	<u>TRACK</u>	<u>SESSION NAME</u>
Fri. 8/13	18:00	21:00	Sat. 8/14	09:00	12:00	Tutorial	Language Scaling: Applications, Challenges and Approaches
Fri. 8/13	18:00	21:00	Sat. 8/14	09:00	12:00	Tutorial	Multi-Objective Recommendations
Fri. 8/13	18:00	21:00	Sat. 8/14	09:00	12:00	Tutorial	New Frontiers of Multi-Network Mining: Recent Developments and Future Trend
Fri. 8/13	18:00	21:00	Sat. 8/14	09:00	12:00	Tutorial	On the Power of Pre-Trained Text Representations: Models and Applications in Text Mining
Fri. 8/13	18:00	21:00	Sat. 8/14	09:00	12:00	Tutorial	Real-time Event Detection for Emergency Response Tutorial
Fri. 8/13	18:00	21:00	Sat. 8/14	09:00	12:00	Tutorial	Toward Explainable Deep Anomaly Detection
Fri. 8/13	18:00	21:00	Sat. 8/14	09:00	12:00	Tutorial	Towards Fair Federated Learning
Fri. 8/13	18:00	21:00	Sat. 8/14	09:00	12:00	Tutorial	A Visual Tour of Bias Mitigation Techniques for Word Representations
Fri. 8/13	18:00	21:00	Sat. 8/14	09:00	12:00	Tutorial	Counterfactual Explanations in Explainable AI: A Tutorial
Fri. 8/13	18:00	01:00	Sat. 8/14	09:00	16:00	Tutorial	Data Pricing and Data Asset Governance in the AI Era (Full Day)

Fri. 8/13	18:00	21:00	Sat. 8/14	09:00	12:00	Tutorial	Deep Learning on Graphs for Natural Language Processing
Fri. 8/13	18:00	21:00	Sat. 8/14	09:00	12:00	Tutorial	Explainability for Natural Language Processing
Fri. 8/13	18:00	21:00	Sat. 8/14	09:00	12:00	Tutorial	Fairness and Explanation in Clustering and Outlier Detection
Fri. 8/13	18:00	01:00	Sat. 8/14	09:00	16:00	Tutorial	Graph Representation Learning: Foundations, Methods, Applications and Systems (Full Day)
Fri. 8/13	18:00	21:00	Sat. 8/14	09:00	12:00	Tutorial	Software as a Medical Device: Regulating AI in Healthcare via Responsible AI
Fri. 8/13	22:00	01:00	Sat. 8/14	13:00	16:00	Tutorial	High-Dimensional Similarity Query Processing for Data Science
Fri. 8/13	22:00	01:00	Sat. 8/14	13:00	16:00	Tutorial	Machine Learning Robustness, Fairness, and their Convergence
Fri. 8/13	22:00	01:00	Sat. 8/14	13:00	16:00	Tutorial	Automated Machine Learning on Graph
Fri. 8/13	22:00	01:00	Sat. 8/14	13:00	16:00	Tutorial	AutoML: A Perspective where Industry Meets Academy
Fri. 8/13	22:00	01:00	Sat. 8/14	13:00	16:00	Tutorial	Data Quality for Machine Learning Tasks
Fri. 8/13	22:00	01:00	Sat. 8/14	13:00	16:00	Tutorial	Bias, and Flattening the Curve of the COVID-19 Infodemic
Fri. 8/13	22:00	01:00	Sat. 8/14	13:00	16:00	Tutorial	From Deep Learning to Deep Reasoning
Sat. 8/14	03:30	04:30	Sat. 8/14	18:30	19:30	Social	Singapore Zoo Live Show: Night Safari
Sat. 8/14	17:30	17:40	Sun. 8/15	08:30	08:40	ESG Day	Opening Address & Talk
Sat. 8/14	17:40	18:10	Sun. 8/15	08:40	09:10	ESG Day	Invited Talk 1: DCWiz: Transforming Data Center Operations and Management (O&M) with AI
Sat. 8/14	18:10	18:40	Sun. 8/15	09:10	09:40	ESG Day	Invited Talk 2: Building Green Sustainable Society with Innovative Digital Power
Sat. 8/14	18:40	19:10	Sun. 8/15	09:40	10:10	ESG Day	Invited Talk 3: Mandal's Deep Tech and Collaborative Innovation Approach to ESG

Sat. 8/14	19:10	19:40	Sun. 8/15	10:10	10:40	ESG Day	Invited Talk 4: The Day I Called Steve Jobs
Sat. 8/14	19:40	20:20	Sun. 8/15	10:40	11:20	ESG Day	Panel 1: Data Science for Social Good
Sat. 8/14	20:20	21:00	Sun. 8/15	11:20	12:00	ESG Day	Panel 2: Organization of the Future: Structure, Strategy and Sustainability
Sat. 8/14	21:00	21:10	Sun. 8/15	12:00	12:10	ESG Day	Closing Remark
Sat. 8/14	17:00	18:00	Sun. 8/15	08:00	09:00	KDD Cup	KDD Cup - Intro Remarks
Sat. 8/14	18:00	21:00	Sun. 8/15	09:00	12:00	KDD Cup	Multi-dataset Time Series Anomaly Detection
Sat. 8/14	18:00	21:00	Sun. 8/15	09:00	12:00	KDD Cup	City Brain Challenge
Sat. 8/14	22:00	02:00	Sun. 8/15	13:00	17:00	KDD Cup	OGB Large-Scale Challenge (OGB-LSC)
Sun. 8/15	08:00	12:00	Sun. 8/15	23:00	03:00	KDD Cup	OGB Large-Scale Challenge (OGB-LSC)
Sat. 8/14	17:00	17:20	Sun. 8/15	08:00	08:20	Trust Day	Opening Address & Talk
Sat. 8/14	17:20	17:50	Sun. 8/15	08:20	08:50	Trust Day	Invited Talk 1: Into the blockchain data
Sat. 8/14	17:50	18:20	Sun. 8/15	08:50	09:20	Trust Day	Invited Talk 2: The Dumbo Protocol Family: Making Asynchronous Consensus Real
Sat. 8/14	18:20	18:50	Sun. 8/15	09:20	09:50	Trust Day	Netting Protocol on Blockchain for Payment Systems
Sat. 8/14	18:50	19:20	Sun. 8/15	09:50	10:20	Trust Day	Invited Talk 4: Understanding and Practicing the Science of Public Trust
Sat. 8/14	19:20	20:10	Sun. 8/15	10:20	11:10	Trust Day	Panel 1: AI Governance solutions for the responsible management for AI at scale
Sat. 8/14	20:10	21:00	Sun. 8/15	11:10	12:00	Trust Day	Panel 2: AI adoption, ethics & governance in Financial Services
Sat. 8/14	22:00	22:30	Sun. 8/15	13:00	13:30	Trust Day	Invited Talk 5: Public Trust, Privately Enforced: Building Trust in Corporate Governance

Sat. 8/14	22:30	23:00	Sun. 8/15	13:30	14:00	Trust Day	Invited Talk 6: Towards a Trustworthy Federated Learning Ecosystem
Sun. 8/15	23:00	23:30	Sun. 8/15	14:00	14:30	Trust Day	Invited Talk 7: Secure and Interpretable Vertical Federated Learning
Sun. 8/15	23:40	00:30	Sun. 8/15	14:40	15:30	Trust Day	through AI-enabled hyper-personalization in a privacy-first world
Sun. 8/15	00:30	00:40	Sun. 8/15	15:30	15:40	Trust Day	Closing Remarks
Sat. 8/14	09:00	12:00	Sun. 8/15	00:00	03:00	Tutorial	Mixed Method Development of Evaluation Metrics
Sat. 8/14	09:00	12:00	Sun. 8/15	00:00	03:00	Tutorial	Simple and Automatic Distributed Machine Learning on Ray
Sat. 8/14	09:00	12:00	Sun. 8/15	00:00	03:00	Tutorial	Systemic Challenges and Solutions on Bias and Unfairness in Peer Review
Sat. 8/14	09:00	12:00	Sun. 8/15	00:00	03:00	Tutorial	Advances in Mining Heterogeneous Healthcare Data
Sat. 8/14	09:00	12:00	Sun. 8/15	00:00	03:00	Tutorial	Adversarial Robustness in Deep Learning: From Practices to Theories
Sat. 8/14	09:00	12:00	Sun. 8/15	00:00	03:00	Tutorial	Causal Inference from Network Data
Sat. 8/14	09:00	12:00	Sun. 8/15	00:00	03:00	Tutorial	Challenges in KDD and ML for Sustainable Development
Sat. 8/14	09:00	12:00	Sun. 8/15	00:00	03:00	Tutorial	Data Efficient Learning on Graphs
Sat. 8/14	09:00	12:00	Sun. 8/15	00:00	03:00	Tutorial	Data Science on Blockchains
Sat. 8/14	09:00	12:00	Sun. 8/15	00:00	03:00	Tutorial	Fairness in Networks: Social Capital, Information Access, and Interventions
Sat. 8/14	09:00	12:00	Sun. 8/15	00:00	03:00	Tutorial	From Tables to Knowledge: Recent Advances in Table Understanding
Sat. 8/14	13:00	16:00	Sun. 8/15	04:00	07:00	Tutorial	Machine Learning Explainability and Robustness: Connected at the Hip
Sat. 8/14	13:00	16:00	Sun. 8/15	04:00	07:00	Tutorial	Online Advertising Incrementality Testing And Experimentation: Industry Practical Lessons

Sat. 8/14	13:00	16:00	Sun. 8/15	04:00	07:00	Tutorial	Physics-Guided AI for Large-Scale Spatiotemporal Data
Sat. 8/14	13:00	16:00	Sun. 8/15	04:00	07:00	Tutorial	All You Need to Know to Build a Product Knowledge Graph
Sat. 8/14	13:00	16:00	Sun. 8/15	04:00	07:00	Tutorial	Artificial Intelligence for Drug Discovery
Sat. 8/14	13:00	16:00	Sun. 8/15	04:00	07:00	Tutorial	with EconML and CausalML: Industrial Use Cases at Microsoft, TripAdvisor, Uber
Sat. 8/14	13:00	16:00	Sun. 8/15	04:00	07:00	Tutorial	Creating Recommender Systems Datasets in Scientific Fields
Sat. 8/14	17:00	21:00	Sun. 8/15	08:00	12:00	Workshop	4th Artificial Intelligence of Things (AIoT) Workshop
Sat. 8/14	17:00	21:00	Sun. 8/15	08:00	12:00	Workshop	Practice for High-Dimensional Sparse Data with KDD 2021
Sat. 8/14	17:00	21:00	Sun. 8/15	08:00	12:00	Workshop	The 4th Workshop on Heterogeneous Information Network Analysis and Applications (HENA 2021)
Sat. 8/14	17:00	21:00	Sun. 8/15	08:00	12:00	Workshop	Spatiotemporal Data, Applications, and Systems (DeepSpatial)
Sat. 8/14	17:00	21:00	Sun. 8/15	08:00	12:00	Workshop	2021 KDD Workshop on Understanding Public Perceptions for Applied Data Science
Sat. 8/14	17:00	21:00	Sun. 8/15	08:00	12:00	Workshop	Workshop on Programming Language Processing (PLP)
Sat. 8/14	17:00	21:00	Sun. 8/15	08:00	12:00	Workshop	The KDD 2021 Workshop on Causal Discovery (CD2021)
Sat. 8/14	17:00	21:00	Sun. 8/15	08:00	12:00	Workshop	2021 International Workshop on Talent and Management Computing (TMC'2021)
Sat. 8/14	17:00	21:00	Sun. 8/15	08:00	12:00	Workshop	Proposal for the Workshop Visualization in Data Science at KDD 2021
Sat. 8/14	17:00	21:00	Sun. 8/15	08:00	12:00	Workshop	International Workshop on Data Science for Social Good
Sat. 8/14	17:00	21:00	Sun. 8/15	08:00	12:00	Workshop	Workshop on Model Mining
Sat. 8/14	17:00	21:00	Sun. 8/15	08:00	12:00	Workshop	Algorithms, Architectures, and Applications (Pretrain@KDD 2021)

Sat. 8/14	17:00	21:00	Sun. 8/15	08:00	12:00	Workshop	CityBrain
Sat. 8/14	17:00	21:00	Sun. 8/15	08:00	12:00	Workshop	AdKDD 2021 Workshop Proposal (Part 1)
Sat. 8/14	17:00	21:00	Sun. 8/15	08:00	12:00	Workshop	Learning on Graphs: Methods and Applications (DLG-KDD'21) (Part 1)
Sat. 8/14	18:00	21:00	Sun. 8/15	09:00	12:00	Workshop	Fragile Earth: Accelerating Progress towards Equitable Sustainability Workshop
Sat. 8/14	22:00	02:00	Sun. 8/15	13:00	17:00	Workshop	Data Quality Assessment for Machine Learning
Sat. 8/14	22:00	02:00	Sun. 8/15	13:00	17:00	Workshop	Anomaly and Novelty Detection, Explanation, and Accommodation (ANDEA) (Part 1)
Sun. 8/15	05:00	15:00	Sun. 8/15	20:00	06:00	Workshop	Machine Learning in Finance
Sun. 8/15	07:55	17:00	Sun. 8/15	22:55	08:00	Workshop	2nd International Workshop on Industrial Recommendation Systems (IRS) (Full Day)
Sun. 8/15	08:00	12:00	Sun. 8/15	23:00	03:00	Workshop	Human-Machine Intelligence for High-Stake Public Policy and Resiliency Planning
Sun. 8/15	08:00	12:00	Sun. 8/15	23:00	03:00	Workshop	The Third International TrueFact Workshop: Making a Credible Web for Tomorrow
Sun. 8/15	08:00	17:00	Sun. 8/15	23:00	08:00	Workshop	WIT:Workshop on deriving Insights from user-generatedText (Full Day)
Sun. 8/15	08:00	17:00	Sun. 8/15	23:00	08:00	Workshop	Machine Learning for Consumers and Markets (Full Day)
Sun. 8/15	08:00	12:00	Sun. 8/15	23:00	03:00	Workshop	Bibliographic Data Analysis and Processing (BiblioDAP)
Sun. 8/15	08:00	18:00	Sun. 8/15	23:00	09:00	Workshop	Document Intelligence 2021 (FULL DAY)
Sun. 8/15	08:00	12:00	Sun. 8/15	23:00	03:00	Workshop	20th International Workshop on Data Mining in Bioinformatics (BIOKDD 2021)
Sun. 8/15	08:00	17:00	Sun. 8/15	23:00	08:00	Workshop	Advancing Decision Making in E-Commerce and Beyond (Full Day)
Sun. 8/15	08:00	17:00	Sun. 8/15	23:00	08:00	Workshop	MLHat: Deployable Machine Learning for Security Defense (Full Day)

Sun. 8/15	08:00	15:00	Sun. 8/15	23:00	06:00	Workshop	Workshop on Online and Adaptive Recommender Systems (OARS) (Full Day)
Sun. 8/15	08:00	17:00	Sun. 8/15	23:00	08:00	Workshop	Heterogeneous Graph Deep Learning and Applications (Full Day)
Sun. 8/15	08:00	17:00	Sun. 8/15	23:00	08:00	Workshop	science in Healthcare: State of XAI in Health (Full Day)
Sun. 8/15	08:00	17:00	Sun. 8/15	23:00	08:00	Workshop	meets Data Mining and Knowledge Discovery (epiDAMIK 4.0 @ KDD'21) (Full Day)
Sun. 8/15	09:30	18:00	Mon. 8/16	00:30	09:00	Workshop	Bayesian Causal Inference for Real World Interactive Systems
Sun. 8/15	08:00	17:00	Sun. 8/15	23:00	08:00	Workshop	Data Science with Human in the Loop (Full Day)
Sun. 8/15	08:00	17:00	Sun. 8/15	23:00	08:00	Workshop	ODD: Outlier Detection and Description (Full Day)
Sun. 8/15	08:00	17:00	Sun. 8/15	23:00	08:00	Workshop	7th Workshop on Mining and Learning from Time Series (Full Day)
Sun. 8/15	08:00	12:00	Sun. 8/15	23:00	03:00	Workshop	Workshop on Artificial Intelligence-enabled Cybersecurity Analytics
Sun. 8/15	08:00	17:00	Sun. 8/15	23:00	08:00	Workshop	Datasets, Measures and Best Practices for Responsible AI (Full Day)
Sun. 8/15	08:00	12:00	Sun. 8/15	23:00	03:00	Workshop	The Fifth International Workshop on Automation in Machine Learning
Sun. 8/15	08:00	12:00	Sun. 8/15	23:00	03:00	Workshop	Learning on Graphs: Methods and Applications (DLG-KDD'21) (Part 2)
Sun. 8/15	08:00	12:00	Sun. 8/15	23:00	03:00	Workshop	AdKDD 2021 Workshop Proposal (Part 2)
Sun. 8/15	09:00	10:00	Mon. 8/16	00:00	01:00	Women in KDD	Keynote: Jennifer Neville, Microsoft (sponsor Apple)
Sun. 8/15	10:00	11:00	Mon. 8/16	01:00	02:00	Women in KDD	Woman's Panel (sponsor Two Sigma)
Sun. 8/15	11:00	12:00	Mon. 8/16	02:00	03:00	Women in KDD	Monitoring Round Tables
Sun. 8/15	08:00	08:10	Sun. 8/15	23:00	23:10	Health Day	Introduction

Sun. 8/15	08:10	08:50	Sun. 8/15	23:10	23:50	Health Day	Invited Talk: Miheala Van Der Schaar
Sun. 8/15	08:50	09:30	Sun. 8/15	23:50	00:30	Health Day	Spotlight Presentation 1
Sun. 8/15	10:00	10:40	Sun. 8/15	01:00	01:40	Health Day	Invited Talk: Gunther Jansen
Sun. 8/15	10:40	11:20	Sun. 8/15	01:40	02:20	Health Day	Invited Talk: Alexej Gossman
Sun. 8/15	11:20	12:00	Sun. 8/15	02:20	03:00	Health Day	Invited Talk: William Kassler
Sun. 8/15	13:00	13:10	Sun. 8/15	04:00	04:10	Health Day	Best Paper Announcements
Sun. 8/15	13:10	13:50	Sun. 8/15	04:10	04:50	Health Day	Invited Talk: Fernando Schwarz
Sun. 8/15	13:50	14:30	Sun. 8/15	04:50	05:30	Health Day	Invited Talk: Leo Celi
Sun. 8/15	15:00	15:40	Sun. 8/15	06:00	06:40	Health Day	Invited Talk: Gretchen Purcell Jackson
Sun. 8/15	15:40	16:20	Sun. 8/15	06:40	07:20	Health Day	Invited Talk: Dave DeCaprio
Sun. 8/15	16:20	16:50	Mon. 8/16	07:20	07:50	Health Day	Spotlight Presentation 2
Sun. 8/15	16:50	17:00	Mon. 8/16	07:50	08:00	Health Day	Closing Session
Sun. 8/15	10:00	18:00	Mon. 8/16	01:00	09:00	Workshop	Misinformation and Misbehavior Mining on the Web
Sun. 8/15	13:00	17:00	Mon. 8/16	04:00	08:00	Workshop	Anomaly and Novelty Detection, Explanation, and Accommodation (ANDEA) (Part 2)
Sun. 8/15	13:00	17:00	Mon. 8/16	04:00	08:00	Workshop	complex human-natural systems via convergent data intensive research.
Sun. 8/15	14:00	18:00	Mon. 8/16	05:00	09:00	Workshop	Fragile Earth: Accelerating Progress towards Equitable Sustainability (Part 2)
Sun. 8/15	13:00	17:00	Mon. 8/16	04:00	08:00	Workshop	Workshop on Data Efficient Machine Learning (DeMaL)



Sun. 8/15	13:00	17:00	Mon. 8/16	04:00	08:00	Workshop	Third Workshop on Adversarial Learning Methods for Machine Learning and Data Mining
Sun. 8/15	17:15	17:30	Mon. 8/16	08:15	08:30	General Session	<b>KDD Welcome and Announcements - Feida Zhu</b>
Sun. 8/15	17:30	18:00	Mon. 8/16	08:30	09:00	General Session	<b>Opening Comments: Janil Puthuchery</b>
Sun. 8/15	18:00	19:00	Mon. 8/16	09:00	10:00	Keynote	<b>Jeff Ullman</b> , On the Nature of Data Science (Sponsored by: Two Sigma)
Sun. 8/15	19:00	19:45	Mon. 8/16	10:00	10:45	ADS Invited	<b>Haixun Wang</b> , Instacart: Rethink e-Commerce Search
Sun. 8/15	19:30	21:00	Mon. 8/16	10:30	12:00	Research Paper Session R7	Data Science for Rich Data Types -> Graphs and Networks A
Sun. 8/15	19:30	21:00	Mon. 8/16	10:30	12:00	Research Paper Session R8	Data Science for Rich Data Types -> Graphs and Networks B
Sun. 8/15	19:30	21:00	Mon. 8/16	10:30	12:00	Research Paper Session R9	Data Science for Rich Data Types -> Graphs and Networks C
Sun. 8/15	19:30	21:00	Mon. 8/16	10:30	12:00	ADS Paper Session A2	Mobile Information Processing Systems   Mobile and Sensor Devices, IoT
Sun. 8/15	19:30	21:00	Mon. 8/16	10:30	12:00	ADS Paper Session A14	Healthcare A
Sun. 8/15	21:00	22:00	Mon. 8/16	12:00	13:00	Break	Lunch
Sun. 8/15	22:00	22:45	Mon. 8/16	13:00	13:45	ADS Invited	<b>Xiaokui Xiao</b> , National University of Singapore: Preserving Data Privacy in Federated Learning
Sun. 8/15	22:00	23:30	Mon. 8/16	13:00	14:30	ADS Paper Session A15	Healthcare B
Sun. 8/15	22:00	23:30	Mon. 8/16	13:00	14:30	ADS Paper Session A1	Search Engines
Sun. 8/15	22:00	23:30	Mon. 8/16	13:00	14:30	Research Paper Session R12	Data Science for Rich Data Types -> Graphs and Networks D
Sun. 8/15	22:00	23:30	Mon. 8/16	13:00	14:30	Research Paper Session R14	Data Science for Rich Data Types -> Graphs and Networks E
Sun. 8/15	22:00	23:30	Mon. 8/16	13:00	14:30	Research Paper Session R15	Data Science for Rich Data Types -> Graphs and Networks F

Sun. 8/15	22:45	23:30	Mon. 8/16	13:45	14:30	ADS Invited	<b>Xavier Bresson</b> , National University of Singapore: Learning to Solve the Traveling Salesman Problem
Mon. 8/16	02:30	03:00	Mon. 8/16	17:30	18:00	Sponsor Talks	Sponsor Talk presented by Baidu
Mon. 8/16	04:00	04:30	Mon. 8/16	19:00	19:30	Sponsor Talks	Sponsor Talk presented by Tencent
Mon. 8/16	05:00	05:30	Mon. 8/16	20:00	20:30	Sponsor Talks	Sponsor Talk presented by Bloomberg
Mon. 8/16	05:30	06:00	Mon. 8/16	20:30	21:00	Sponsor Talks	Sponsor Talk presented by Alibaba
Mon. 8/16	06:00	06:30	Mon. 8/16	21:00	21:30	Sponsor Talks	Sponsor Talk presented by Macy's
Mon. 8/16	23:30	01:00	Mon. 8/16	14:30	16:00	Research Paper Session R18	Data Science for Rich Data Types -> Graphs and Networks M
Mon. 8/16	23:30	01:00	Mon. 8/16	14:30	16:00	Research Paper Session R19	Data Science for Rich Data Types -> Social Networks B
Mon. 8/16	23:30	01:00	Mon. 8/16	14:30	16:00	Research Paper Session R22	Data Science for Rich Data Types -> Text and Web B
Mon. 8/16	23:30	01:00	Mon. 8/16	14:30	16:00	Research Paper Session R24	Data Science for Rich Data Types -> Time Series
Mon. 8/16	23:30	01:00	Mon. 8/16	14:30	16:00	ADS Paper Session A16	Healthcare   Interpretable Models
Mon. 8/16	23:30	01:00	Mon. 8/16	14:30	16:00	ADS Paper Session A19	Cloud Computing   Crowdsourcing
Mon. 8/16	03:00	06:00	Mon. 8/16	18:00	21:00	Poster Session	Poster Session I
Mon. 8/16	09:00	10:00	Tues. 8/17	00:00	01:00	Keynote	<b>Sharon Glotzer</b> , Data Science for Assembly Engineering
Mon. 8/16	10:00	10:45	Tues. 8/17	01:00	01:45	ADS Invited	Translating Fairness, Accountability, and Transparency into Data Science Practice
Mon. 8/16	10:30	12:00	Tues. 8/17	01:30	03:00	Research Paper Session R10	Data Science for Rich Data Types -> Graphs and Networks H
Mon. 8/16	10:30	12:00	Tues. 8/17	01:30	03:00	Research Paper Session R13	Data Science for Rich Data Types -> Graphs and Networks I

Mon. 8/16	10:30	12:00	Tues. 8/17	01:30	03:00	Research Paper Session R11	Data Science for Rich Data Types -> Graphs and Networks J
Mon. 8/16	10:30	12:00	Tues. 8/17	01:30	03:00	ADS Paper Session A10	Web Mining   Multimedia
Mon. 8/16	10:30	12:00	Tues. 8/17	01:30	03:00	ADS Paper Session A11	Social Good
Mon. 8/16	10:45	11:30	Tues. 8/17	01:45	02:30	ADS Invited	Institute for AI: Semantic Scholar - Tera-scale NLP to Accelerate Scientific Research
Mon. 8/16	12:00	13:00	Tues. 8/17	03:00	04:00	Break	Lunch
Mon. 8/16	13:00	14:30	Tues. 8/17	04:00	05:30	Research Paper Session R16	Data Science for Rich Data Types -> Graphs and Networks K
Mon. 8/16	13:00	14:30	Tues. 8/17	04:00	05:30	Research Paper Session R17	Data Science for Rich Data Types -> Graphs and Networks L
Mon. 8/16	13:00	14:30	Tues. 8/17	04:00	05:30	Research Paper Session R20	Data Science for Rich Data Types -> Spatio-Temporal A
Mon. 8/16	13:00	14:30	Tues. 8/17	04:00	05:30	ADS Paper Session A12	Healthcare   Bioinformatics
Mon. 8/16	13:00	14:30	Tues. 8/17	04:00	05:30	ADS Paper Session A17	Interpretable Models
Mon. 8/16	13:45	14:30	Tues. 8/17	04:45	05:30	ADS Invited	What's Next in Infrastructure for Machine Learning?
Mon. 8/16	14:30	15:15	Tues. 8/17	05:30	06:15	ADS Invited	Search: Building an open ecosystem for dataset discovery
Mon. 8/16	14:30	16:00	Tues. 8/17	05:30	07:00	Research Paper Session R21	Data Science for Rich Data Types -> Spatio-Temporal B
Mon. 8/16	14:30	16:00	Tues. 8/17	05:30	07:00	Research Paper Session R23	Data Science for Rich Data Types -> Text and Web A
Mon. 8/16	14:30	16:00	Tues. 8/17	05:30	07:00	Research Paper Session R2	Anomaly and Outlier Detection -> Anomaly Detection Algorithms
Mon. 8/16	14:30	16:00	Tues. 8/17	05:30	07:00	ADS Paper Session A18	Large Scale Optimization   Design of Experiments
Mon. 8/16	14:30	16:00	Tues. 8/17	05:30	07:00	ADS Paper Session A13	Bioinformatics

Mon. 8/16	16:00	17:00	Tues. 8/17	07:00	08:00	Paper Session	Dissertation Awards Talks
Mon. 8/16	17:00	18:00	Tues. 8/17	08:00	09:00	General Session	<b>SIGKDD Awards</b>
Mon. 8/16	18:00	19:00	Tues. 8/17	09:00	10:00	Keynote	<b>Claire Tomlin</b> , Safe Learning in Robotics
Mon. 8/16	19:00	19:45	Tues. 8/17	10:00	10:45	ADS Invited	<b>Wei Wang</b> , NUS and ByteDance: Towards An-easy-to Use AI Platform: Data, Algorithms and Systems
Mon. 8/16	19:30	21:00	Tues. 8/17	10:30	12:00	Research Paper Session R25	Deep Learning -> Applications A
Mon. 8/16	19:30	21:00	Tues. 8/17	10:30	12:00	Research Paper Session R26	Deep Learning -> Applications B
Mon. 8/16	19:30	21:00	Tues. 8/17	10:30	12:00	Research Paper Session R27	Deep Learning -> New Architectures and Models B
Mon. 8/16	19:30	21:00	Tues. 8/17	10:30	12:00	ADS Paper Session A7	User Modeling   Voice User Interfaces
Mon. 8/16	19:30	21:00	Tues. 8/17	10:30	12:00	ADS Paper Session A8	Marketing
Mon. 8/16	19:30	21:00	Tues. 8/17	10:30	12:00	ADS Paper Session A4	Transportation B
Mon. 8/16	19:45	20:30	Tues. 8/17	10:45	11:30	ADS Invited	human behaviour representations from sensor data
Mon. 8/16	21:00	22:00	Tues. 8/17	12:00	13:00	Break	Lunch
Mon. 8/16	21:00	22:00	Tues. 8/17	12:00	13:00	Social	Singapore Zoo Live Show: Once Upon a River
Mon. 8/16	22:00	22:45	Tues. 8/17	13:00	13:45	ADS Invited	Technology: Data-Driven Approach to Creativity in Design with Human-Engaged AI
Mon. 8/16	22:00	23:30	Tues. 8/17	13:00	14:30	Research Paper Session R29	Deep Learning -> New Architectures and Models C
Mon. 8/16	22:00	23:30	Tues. 8/17	13:00	14:30	Research Paper Session R30	KDD Process -> User Modeling B
Mon. 8/16	22:00	23:30	Tues. 8/17	13:00	14:30	Research Paper Session R31	KDD Process -> User Modeling C

Mon. 8/16	22:00	23:30	Tues. 8/17	13:00	14:30	ADS Paper Session A40	Interpretable Models B
Mon. 8/16	22:00	23:30	Tues. 8/17	13:00	14:30	ADS Paper Session A29	Recommender Systems A
Mon. 8/16	22:45	23:30	Tues. 8/17	13:45	14:30	ADS Invited	<b>Sunita Sarawagi</b> , IIT Bombay: Is Your Model Prepared for Changes?
Tues. 8/17	23:30	01:00	Tues. 8/17	14:30	16:00	Research Paper Session R33	Learning Paradigms -> Adversarial Learning B
Tues. 8/17	23:30	01:00	Tues. 8/17	14:30	16:00	Research Paper Session R36	Learning Paradigms -> Adversarial Learning C
Tues. 8/17	23:30	01:00	Tues. 8/17	14:30	16:00	Research Paper Session R38	Learning Paradigms -> Semi-Supervised Learning B
Tues. 8/17	23:30	01:00	Tues. 8/17	14:30	16:00	ADS Paper Session A21	E-Commerce, Social Commerce A
Tues. 8/17	23:30	01:00	Tues. 8/17	14:30	16:00	ADS Paper Session A41	E-Commerce, Social Commerce E
Tues. 8/17	01:00	02:30	Tues. 8/17	16:00	17:30	Research Paper Session R40	Learning Paradigms -> Supervised Learning
Tues. 8/17	01:00	02:30	Tues. 8/17	16:00	17:30	Research Paper Session R41	Learning Paradigms -> Unsupervised Learning B
Tues. 8/17	01:00	02:30	Tues. 8/17	16:00	17:30	Research Paper Session R44	Learning Paradigms -> Unsupervised Learning C
Tues. 8/17	01:00	02:30	Tues. 8/17	16:00	17:30	ADS Paper Session A23	E-Commerce, Social Commerce C
Tues. 8/17	01:00	02:30	Tues. 8/17	16:00	17:30	ADS Paper Session A25	E-Commerce, Social Commerce   Finance
Tues. 8/17	03:00	04:00	Tues. 8/17	18:00	19:00	Paper Session	Best Paper Award Talks
Tues. 8/17	09:00	10:00	Wed. 8/18	00:00	01:00	Keynote	Closing Keynote: Vincent Conitzer (Sponsored by Capital One)
Tues. 8/17	10:00	10:45	Wed. 8/18	01:00	01:45	ADS Invited	humans generate new ideas and create more Eureka moments?
Tues. 8/17	10:30	12:00	Wed. 8/18	01:30	03:00	Research Paper Session R28	Deep Learning -> New Architectures and Models A

Tues. 8/17	10:30	12:00	Wed. 8/18	01:30	03:00	Research Paper Session R32	KDD Process -> User Modeling A
Tues. 8/17	10:30	12:00	Wed. 8/18	01:30	03:00	Research Paper Session R34	Learning Paradigms -> Adversarial Learning A
Tues. 8/17	10:30	12:00	Wed. 8/18	01:30	03:00	ADS Paper Session A20	Design of Experiments
Tues. 8/17	10:30	12:00	Wed. 8/18	01:30	03:00	ADS Paper Session A22	E-Commerce, Social Commerce B
Tues. 8/17	10:45	11:30	Wed. 8/18	01:45	02:30	ADS Invited	<b>Nesime Tatbul</b> , Intel Labs and MIT: Applied Data Science for Predictive Time Series Analytics
Tues. 8/17	12:00	13:00	Wed. 8/18	03:00	04:00	Break	Lunch
Tues. 8/17	13:00	13:45	Wed. 8/18	04:00	04:45	ADS Invited	Learning to Amplify Scientific Work in Conservation and Ocean Health
Tues. 8/17	13:00	14:30	Wed. 8/18	04:00	05:30	Research Paper Session R35	Learning Paradigms -> Reinforcement Learning
Tues. 8/17	13:00	14:30	Wed. 8/18	04:00	05:30	Research Paper Session R39	Learning Paradigms -> Semi-Supervised Learning A
Tues. 8/17	13:00	14:30	Wed. 8/18	04:00	05:30	Research Paper Session R42	Data Science for Rich Data Types -> Social Networks A
Tues. 8/17	13:00	14:30	Wed. 8/18	04:00	05:30	ADS Paper Session A24	E-Commerce, Social Commerce D
Tues. 8/17	13:00	14:30	Wed. 8/18	04:00	05:30	ADS Paper Session A31	Recommender Systems C
Tues. 8/17	13:45	14:30	Wed. 8/18	04:45	05:30	ADS Invited	Knowledge Graph Completion From a Practical Perspective
Tues. 8/17	14:30	16:00	Wed. 8/18	05:30	07:00	Research Paper Session R43	Learning Paradigms -> Unsupervised Learning A
Tues. 8/17	14:30	16:00	Wed. 8/18	05:30	07:00	Research Paper Session R45	Optimization and Algorithm Design for Data Science -> Online Algorithms
Tues. 8/17	14:30	16:00	Wed. 8/18	05:30	07:00	Research Paper Session R6	Data Science for Epidemiology
Tues. 8/17	14:30	16:00	Wed. 8/18	05:30	07:00	ADS Paper Session A32	Recommender Systems D

Tues. 8/17	14:30	16:00	Wed. 8/18	05:30	07:00	ADS Paper Session A26	Finance   Misinformation, Disinformation, Integrity
Tues. 8/17	18:00	19:00	Wed. 8/18	09:00	10:00	General Session	<b>SIGKDD Town Hall</b>
Tues. 8/17	19:00	19:45	Wed. 8/18	10:00	10:45	ADS Invited	<b>Yangqing Jia</b> , Alibaba: Challenges and solutions in industry scale data and AI systems
Tues. 8/17	19:30	21:00	Wed. 8/18	10:30	12:00	Research Paper Session R37	Application Areas -> Humanities and Social Science
Tues. 8/17	19:30	21:00	Wed. 8/18	10:30	12:00	Research Paper Session R46	Application Areas -> Web and Commerce B
Tues. 8/17	19:30	21:00	Wed. 8/18	10:30	12:00	Research Paper Session R47	Science -> Probabilistic and Randomized Algorithms
Tues. 8/17	19:30	21:00	Wed. 8/18	10:30	12:00	ADS Paper Session A27	Big Data and Machine Learning Infrastructure A
Tues. 8/17	19:30	21:00	Wed. 8/18	10:30	12:00	ADS Paper Session A28	Big Data and Machine Learning Infrastructure B
Tues. 8/17	19:45	20:30	Wed. 8/18	10:45	11:30	ADS Invited	The New DBfication of ML/AI and Reigniting the Database - Data Mining Nexus
Tues. 8/17	21:00	22:00	Wed. 8/18	12:00	13:00	Break	Lunch
Tues. 8/17	22:00	22:45	Wed. 8/18	13:00	13:45	ADS Invited	<b>Meihui Zhang</b> , MZH Technologies & BIT: Big Data Analytics in Healthcare
Tues. 8/17	22:00	23:30	Wed. 8/18	13:00	14:30	Research Paper Session R48	Optimization and Algorithm Design for Data Science -> Streaming Algorithms
Tues. 8/17	22:00	23:30	Wed. 8/18	13:00	14:30	Research Paper Session R51	Privacy and Ethics -> Fairness and Transparency
Tues. 8/17	22:00	23:30	Wed. 8/18	13:00	14:30	Research Paper Session R54	Data Science for Rich Data Types -> Graphs and Networks G
Tues. 8/17	22:00	23:30	Wed. 8/18	13:00	14:30	ADS Paper Session A3	Transportation A
Tues. 8/17	22:00	23:30	Wed. 8/18	13:00	14:30	ADS Paper Session A30	Recommender Systems B
Tues. 8/17	22:45	23:30	Wed. 8/18	13:45	14:30	ADS Invited	approach to Career Mobility and Talent Management

Wed. 8/18	23:30	01:00	Wed. 8/18	14:30	16:00	Research Paper Session R56	Application Areas -> Web and Commerce C
Wed. 8/18	23:30	01:00	Wed. 8/18	14:30	16:00	Research Paper Session R58	Application Areas -> Business
Wed. 8/18	23:30	01:00	Wed. 8/18	14:30	16:00	Research Paper Session R59	Application Areas -> Medicine
Wed. 8/18	23:30	01:00	Wed. 8/18	14:30	16:00	ADS Paper Session A33	Recommender Systems E
Wed. 8/18	23:30	01:00	Wed. 8/18	14:30	16:00	ADS Paper Session A35	Scalable Algorithms and Systems   Scheduling, Manufacturing   Security
Wed. 8/18	01:00	02:30	Wed. 8/18	16:00	17:30	Research Paper Session R1	Anamoly and Outlier Detection -> Robust Methods
Wed. 8/18	01:00	02:30	Wed. 8/18	16:00	17:30	Research Paper Session R3	Causal and Graphical Models -> Causal Inference
Wed. 8/18	01:00	02:30	Wed. 8/18	16:00	17:30	Research Paper Session R4	Data Preparation -> Data Imputation
Wed. 8/18	01:00	02:30	Wed. 8/18	16:00	17:30	ADS Paper Session A38	Advertising B
Wed. 8/18	01:00	02:30	Wed. 8/18	16:00	17:30	ADS Paper Session A6	Online Games   Sports Analytics   IT Operations   Social Media and Social Science
Wed. 8/18	07:50	08:00	Wed. 8/18	22:50	23:00	Deep Learning Day	Opening Remarks (Sponsor Two Sigma)
Wed. 8/18	08:00	08:30	Wed. 8/18	23:00	23:30	Deep Learning Day	Invited Talk - Eric Xing
Wed. 8/18	08:30	08:45	Wed. 8/18	23:30	23:45	Deep Learning Day	Contributed Talk - Arun Kumar
Wed. 8/18	08:45	09:00	Wed. 8/18	23:45	00:00	Deep Learning Day	Contributed Talk - Deepak Agarwal
Wed. 8/18	09:00	09:30	Thurs. 8/19	00:00	00:30	Deep Learning Day	Invited Talk - Dawn Song
Wed. 8/18	09:45	10:15	Thurs. 8/19	00:45	01:15	Deep Learning Day	Invited Talk - Besmira Nushi
Wed. 8/18	10:15	10:30	Thurs. 8/19	01:15	01:30	Deep Learning Day	Contributed Talk



Wed. 8/18	10:30	10:45	Thurs. 8/19	01:30	01:45	Deep Learning Day	Contributed Talk
Wed. 8/18	10:45	11:15	Thurs. 8/19	01:45	02:15	Deep Learning Day	Invited Talk - Aleksander Madry
Wed. 8/18	11:15	12:00	Thurs. 8/19	02:15	03:00	Deep Learning Day	Panel - Baharan Mirzasoleiman (Mod)
Wed. 8/18	13:00	13:30	Thurs. 8/19	04:00	04:30	Deep Learning Day	Invited Talk - James Zou
Wed. 8/18	13:30	13:45	Thurs. 8/19	04:30	04:45	Deep Learning Day	Contributed Talk
Wed. 8/18	13:45	14:00	Thurs. 8/19	04:45	05:00	Deep Learning Day	Contributed Talk
Wed. 8/18	14:00	14:30	Thurs. 8/19	05:00	05:30	Deep Learning Day	Invited Talk - Martin Wattenberg
Wed. 8/18	14:45	15:15	Thurs. 8/19	05:45	06:15	Deep Learning Day	Invited Talk
Wed. 8/18	15:15	15:30	Thurs. 8/19	06:15	06:30	Deep Learning Day	Contributed Talk - Andrew Stolman
Wed. 8/18	15:30	15:45	Thurs. 8/19	06:30	06:45	Deep Learning Day	Contributed Talk
Wed. 8/18	15:45	16:15	Thurs. 8/19	06:45	07:15	Deep Learning Day	Invited Talk
Wed. 8/18	16:15	17:00	Thurs. 8/19	07:15	08:00	Deep Learning Day	Panel - Hima Lakkaraju (mod)
Wed. 8/18	17:00	17:15	Thurs. 8/19	08:00	08:15	Deep Learning Day	Closing Remarks
Wed. 8/18	10:30	12:00	Thurs. 8/19	01:30	03:00	Research Paper Session R5	Privacy and Ethics -> Interpretability and Explainability A
Wed. 8/18	10:30	12:00	Thurs. 8/19	01:30	03:00	Research Paper Session R49	Privacy and Ethics -> Fairness and Transparency
Wed. 8/18	10:30	12:00	Thurs. 8/19	01:30	03:00	Research Paper Session R50	Privacy and Ethics -> Interpretability and Explainability B
Wed. 8/18	10:30	12:00	Thurs. 8/19	01:30	03:00	ADS Paper Session A34	Scalable Algorithms and Systems

Wed. 8/18	10:30	12:00	Thurs. 8/19	01:30	03:00	ADS Paper Session A36	Security
Wed. 8/18	13:00	14:30	Thurs. 8/19	04:00	05:30	Research Paper Session R52	Systems for Data Science -> Efficient Training and Inference
Wed. 8/18	13:00	14:30	Thurs. 8/19	04:00	05:30	Research Paper Session R53	Theory -> Learning and Generalization
Wed. 8/18	13:00	14:30	Thurs. 8/19	04:00	05:30	Research Paper Session R55	Systems for Data Science -> Federated Learning
Wed. 8/18	13:00	14:30	Thurs. 8/19	04:00	05:30	ADS Paper Session A37	Advertising A
Wed. 8/18	13:00	14:30	Thurs. 8/19	04:00	05:30	ADS Paper Session A39	Advertising C
Wed. 8/18	14:30	16:00	Thurs. 8/19	05:30	07:00	Research Paper Session R57	Privacy and Ethics -> Interpretability and Explainability C
Wed. 8/18	14:30	16:00	Thurs. 8/19	05:30	07:00	Research Paper Session R60	Application Areas -> Web and Commerce A
Wed. 8/18	14:30	16:00	Thurs. 8/19	05:30	07:00	ADS Paper Session A5	Autonomous Driving   Climate and Environment
Wed. 8/18	14:30	16:00	Thurs. 8/19	05:30	07:00	ADS Paper Session A9	Web Mining
Wed. 8/18	14:30	17:30	Thurs. 8/19	05:30	08:30	Poster Session	Poster Session II
Wed. 8/18	14:30	15:00	Thurs. 8/19	05:30	06:00	Expo Hall Talks	Sponsor Talk presented by Facebook
Wed. 8/18	15:00	15:30	Thurs. 8/19	06:00	06:30	Expo Hall Talks	Sponsor Talk presented by Amazon
Wed. 8/18	16:30	17:00	Thurs. 8/19	07:30	08:00	Expo Hall Talks	Sponsor Talk presented by Ant Financial
Wed. 8/18	17:00	17:30	Thurs. 8/19	08:00	08:30	Expo Hall Talks	Sponsor Talk presented by LinkedIn
Wed. 8/18	17:30	18:00	Thurs. 8/19	08:30	09:00	General Session	KDD Closing Remarks - Feida Zhu