

# Dongyu Liu

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## PROFESSIONAL EXPERIENCE

- Jul 2023 - **Assistant Professor**, UC Davis  
Present *Department of Computer Science, College of Engineering*
- Sep 2019 - **Postdoctoral Associate**, MIT  
Mar 2023 *Data-to-AI group, with Kalyan Veeramachaneni*
- Aug 2014 - **Research Assistant**, Hong Kong University of Science and Technology  
Aug 2019 *VISLab, with Huamin Qu*
- Nov 2018 - **Research Assistant**, MIT  
Apr 2019 *Data-to-AI group, with Kalyan Veeramachaneni*
- Sep 2017 - **Research Intern**, Bosch Research  
Apr 2018 *Human-Machine Intelligence Group, with PanPan Xu and Liu Ren*
- Jul 2016 - **Research Intern**, Microsoft Research Asia  
Apr 2017 *Internet Graphics Group, with Weiwei Cui*
- Summer 2016 **Research Intern**, Tencent  
2016 *WeChat Technical Architecture Group*
- 2012–16 **Research Assistant**, Zhejiang University  
*Visiting Graduate (15-16), Interactive Data Group, with Yingcai Wu*  
*Undergraduate (12-14), State Key Lab of CAD&CG, with Hongxin Zhang*  
*Undergraduate (12-14), EAGLE Lab, with Jiajun Bu*

## EDUCATION

- 2014–19 **Ph.D. in Computer Science & Engineering**  
Hong Kong University of Science and Technology, Hong Kong  
*Thesis: Combining Automated Analysis with Interactive Vis for Spatio-temporal Data Analysis*  
*Advisor: Huamin Qu*  
*Committee: Pedro Sander, Yangqiu Song, Zhongming Lu, Claudio Silva*
- 2010–14 **B.Eng. in Computer Science and Technology**  
Zhejiang University, Hangzhou, China  
*Thesis: The Design and Implementation of an Intelligent and Emotional Chatbot*  
*Advisor: Jiajun Bu*  
 Completed the Chu Kochen Honors Program

## HONORS & AWARDS

- 2021 IEEE VIS Best Paper Honorable Mention Award
- 2020 Finalist of the HKUST SENG PhD Research Excellence Award  
Only 3 from more than 200 PhD graduates in the School of Engineering 2019-20.

2018 IEEE VIS (VAST) Best Paper Award

2014—18 Hong Kong PhD Fellowship Scheme (≈120,000 USD)

A highly prestigious and competitive fellowship established by the Hong Kong RGC.

2018 Overseas Research Award (≈6,000 USD)

2017 Stars of Tomorrow (Award of Excellent Intern), Microsoft Research Asia

2017 Excellent Oral Presentation Award in ZJU International Doctoral Students Conference.

2015 Honorable Mention Award at IEEE VAST Grand Challenge

2015 Merit Award in E-Learning at The Asia Pacific ICT Alliance (APICTA)

2014 Zhejiang University Outstanding Dissertation Award

2013 Awardee of Zhejiang Provincial College Students' Science and Technology Innovation Program

2013 Honorable Mention Award in COMAP's Mathematical Contest in Modeling

2012 Honorable Mention Award in CSIAM's Undergraduate Mathematical Contest in Modeling

2012 Awardee of National Undergraduate Training Program for Innovation and Entrepreneurship

2009 First Prize in National Olympiad in Informatics in Provinces

Top 1 out of ~5k participants in Fujian Province and top 5 out of ~80k participants in China.

## RESEARCH FUNDING

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2026 **CITRIS Seed Award**. PIs: Dongyu Liu and Lihong Mo, \$60k

Point-of-care Cardiovascular Assessment for Earlier Detection of Preeclampsia and Heart Failure in at-risk Pregnant Patients

2025 **Bosch Research Award**. PI: Dongyu Liu, \$75k

UI Understanding and Adaptive Learning with Multimodal LLMs

2024—27 **NSF IIS:Small**, #2427770. PI: Kwan-Liu Ma, co-PI: Dongyu Liu, \$600k

Communicating and Resolving Ambiguity in Collaborative Visual Analytics

2024 **Bosch Gift**. PI: Dongyu Liu, \$55k

GenAI Native UIs for Advanced Data Analytics

## PUBLICATIONS

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\* indicates equal contribution.

### JOURNAL PAPERS

2026 [J1] **SigTime: Learning and Visually Explaining Time Series Signatures**

Yu-Chia Huang, Juntong Chen, Dongyu Liu, and Kwan-Liu Ma

**TVCG** IEEE Transactions on Visualization and Computer Graphics (in press).

2025 [J2] **EMINDS: Understanding User Behavior Progression for Mental Health Exploration on Social Media**

Rui Sheng, Yifang Wang, Xingbo Wang, Shun Dai, Qingyu Guo, Tai-Quan Peng, Huamin Qu, **Dongyu Liu**

**TVCG** IEEE Transactions on Visualization and Computer Graphics (in press).

[J3] **T-Foresight: Interpret moving strategies based on context-aware trajectory prediction**

Yueqiao Chen, Jiang Wu, Yingcai Wu, **Dongyu Liu**

**VI** Visual Informatics, 2025.

[J4] **ClimateSOM: A Visual Analysis Workflow for Climate Ensemble Datasets**

Yuya Kawakami, Daniel Cayan, **Dongyu Liu**, Kwan-Liu Ma

**TVCG** IEEE Transactions on Visualization and Computer Graphics (in press).

[J5] **Save It for the "Hot" Day: An LLM-Empowered Visual Analytics System for Heat Risk Management**

Haobo Li, Wong Kam-Kwai, Yan Luo, Juntong Chen, Chengzhong Liu, Yaxuan Zhang, Alexis Kai Hon Lau, Huamin Qu, **Dongyu Liu**

**TVCG** IEEE Transactions on Visualization and Computer Graphics.

[J6] **InterChat: Enhancing Generative Visual Analytics using Multimodal Interactions**

Juntong Chen, Jiang Wu, Jiajing Guo, Vikram Mohanty, Xueming Li, Jorge Piazzentin Ono, Wenbin He, Liu Ren, **Dongyu Liu**

**CGF** Computer Graphics Forum (in press).

> *Special Issue: Proceedings of EuroVis 2025.*

[J7] **InclusiViz: Visual Analytics of Human Mobility Data for Understanding and Mitigating Urban Segregation**

Yue Yu, Yifang Wang, Yongjun Zhang, Huamin Qu, **Dongyu Liu**

**TVCG** IEEE Transactions on Visualization and Computer Graphics (in press).

> *Special Issue: Proceedings of IEEE PacificVis 2025 (TVCG track).*

2024 [J8] **Towards Dataset-scale and Feature-oriented Evaluation of Text Summarization in Large Language Model Prompts**

Sam Yu-Te Lee, Aryaman Bahukhandi, **Dongyu Liu**, Kwan-Liu Ma

**TVCG** IEEE Transactions on Visualization and Computer Graphics (in press).

> *Special Issue: Proceedings of IEEE VIS 2024.*

[J9] **SpreadLine: Visualizing Egocentric Dynamic Influence**

Yun-Hsin Kuo, **Dongyu Liu**, Kwan-Liu Ma

**TVCG** IEEE Transactions on Visualization and Computer Graphics (in press).

> *Special Issue: Proceedings of IEEE VIS 2024.*

2022 [J10] **RASIPAM: Interactive Pattern Mining of Multivariate Event Sequences in Racket Sports**

Jiang Wu, **Dongyu Liu**, Ziyang Guo, Yingcai Wu

**TVCG** IEEE Transactions on Visualization and Computer Graphics.

> *Special Issue: Proceedings of IEEE VIS 2022.*

[J11] **The Need for Interpretable Features: Motivation and Taxonomy**

Alexandra ZYTEK, Ignacio Arnaldo, **Dongyu Liu**, Laure Berti-Equille, Kalyan Veeramachaneni

**SIGKDD** ACM SIGKDD Explorations Newsletter, 2022.

[J12] **MTV: Visual Analytics for Detecting, Investigating, and Annotating Anomalies in Multivariate Time Series**

**Dongyu Liu**, Sarah Alnegheimish, Alexandra ZYTEK, and Kalyan Veeramachaneni

**PACMHCI** Proceedings of the ACM on Human-Computer Interaction, 2022.

> *Special Issue: Proceedings of ACM CSCW 2022.*

2021 [J13] **VBridge: Connecting the Dots Between Features and Data to Explain Healthcare Models**

Furui Cheng, **Dongyu Liu**, Fan Du, Yanna Lin, Alexandra ZYTEK, Haomin Li, Huamin Qu, Kalyan Veeramachaneni

**TVCG** IEEE Transactions on Visualization and Computer Graphics, 2022.

> *Special Issue: Proceedings of IEEE VIS 2021.*

🏆 **Best Paper Honorable Mention (top 5%)**

[J14] **Sibyl: Understanding and Addressing the Usability Challenges of Machine Learning In High-Stakes Decision Making**

Alexandra ZYTEK, **Dongyu Liu**, Rhema Vaithianathan, Kalyan Veeramachaneni

**TVCG** IEEE Transactions on Visualization and Computer Graphics, 2022.

> *Special Issue: Proceedings of IEEE VIS 2021.*

[J15] **TacticFlow: Visual Analytics of Ever-Changing Tactics in Racket Sports**

Jiang Wu, **Dongyu Liu**, Ziyang Guo, Qingyang Xu, Yingcai Wu

**TVCG** IEEE Transactions on Visualization and Computer Graphics, 2022.

> *Special Issue: Proceedings of IEEE VIS 2021.*

[J16] **MIG-Viewer: Visual Analytics of Soccer Player Migration**

Anqi Cao, Xiao Xie, Ji Lan, Huihua Lu, Xinli Hou, Jiachen Wang, Hui Zhang, **Dongyu Liu**, Yingcai Wu

**VI** Visual Informatics, 2021.

2018 [J17] **TPFlow: Progressive Partition and Multidimensional Pattern Extraction for Large-Scale Spatio-Temporal Data Analysis**

**Dongyu Liu**, Panpan Xu, Liu Ren

**TVCG** IEEE Transactions on Visualization and Computer Graphics, 2019.

> *Special Issue: Proceedings of IEEE VIS 2018 - VAST Track.*

🏆 [Best Paper Award \(Top 1\)](#)

[J18] **DeepTracker: Visualizing the Training Process of Convolutional Neural Networks**

**Dongyu Liu**, Weiwei Cui, Kai Jin, Yuxiao Guo, Huamin Qu

**TIST** ACM Transactions on Intelligent Systems and Technology, 2018.

2016 [J19] **SmartAdP: Visual Analytics of Large-scale Taxi Trajectories for Selecting Billboard Locations**

**Dongyu Liu**, Di Weng, Yuhong Li, Jie Bao, Yu Zheng, Huamin Qu, Yingcai Wu

**TVCG** IEEE Transactions on Visualization and Computer Graphics, 2017.

> *Special Issue: Proceedings of IEEE VIS 2016 - VAST Track.*

🏆 [The top 20 most cited work in TVCG since 2017](#)

[J20] **egoComp: A Node-link Based Technique for Visual Comparison of Ego-network**

**Dongyu Liu**, Fangzhou Guo, Bowen Deng, Huamin Qu, Yingcai Wu

**IV** Information Visualization, SAGE, 2016.

2015 [J21] **PeakVizor: Visual Analytics of Peaks in Video Clickstreams from Massive Open Online Courses**

Qing Chen, Yuanzhe Chen, **Dongyu Liu**, Huamin Qu, Conglei Shi, Yingcai Wu

**TVCG** IEEE Transactions on Visualization and Computer Graphics, 2016.

**REFERRED CONFERENCE PROCEEDINGS**

2025 [C1] **Non-programmers Assessing AI-Generated Code: A Case Study of Business Users Analyzing Data**

Yuvraj Virk, **Dongyu Liu**

**VL/HCC** IEEE Symposium on Visual Languages and Human-Centric Computing (Short Paper).

2022 [C2] **AER: Auto-Encoder with Regression for Time Series Anomaly Detection**

Lawrence Wong, **Dongyu Liu**, Laure Berti-Equille, Sarah Alnegheimish, Kalyan Veeramachaneni

**BigData** IEEE International Conference on Big Data, 2022.

[C3] **Sintel: A Machine Learning Framework to Extract Insights from Signals**

Sarah Alnegheimish, **Dongyu Liu**, Carles Sala, Laure Berti-Équille, Kalyan Veeramachaneni

**SIGMOD** ACM SIGMOD/PODS International Conference on Management of Data, 2022.

🏆 [Popular open source library \(github stars > 850\)](#)

2020 [C4] **TadGAN: Time Series Anomaly Detection Using Generative Adversarial Networks**

**Dongyu Liu\***, Alexander Geiger\*, Sarah Alnegheimish, Alfredo Cuesta-Infante, Kalyan Veeramachaneni

**BigData** IEEE International Conference on Big Data, 2020.

[C5] **Cardea: An Open Automated Machine Learning Framework for Electronic Health Records**

Sarah Alnegheimish, Najat Alrashed, Faisal Aleissa, Shahad Althobaiti, **Dongyu Liu**, Mansour Alsaleh, and Kalyan Veeramachaneni

**DSAA** IEEE International Conference on Data Science and Advanced Analytics, 2020.

2018 [C6] **ATMSeer: Increasing Transparency and Controllability in Automated Machine Learning**

Qianwen Wang, Yao Ming, Zhihua Jin, Qiaomu Shen, **Dongyu Liu**, Micah J. Smith, Kalyan Veeramachaneni, Huamin Qu

**CHI** ACM Conference on Human Factors in Computing Systems, 2019.

2016 [C7] **A Guided Tour of Literature Review: Facilitating Academic Paper Reading with Narrative Visualization**

Yun Wang, **Dongyu Liu**, Huamin Qu, Qiong Luo, Xiaojuan Ma

**VINCI** ACM International Symposium on Visual Information Communication and Interaction, 2016.

## **PREPRINTS**

2025 [P1] **VIDEE: Visual and Interactive Decomposition, Execution, and Evaluation of Text Analytics with Intelligent Agents**

Sam Yu-Te Lee, Chengyang Ji, Shicheng Wen, Lifu Huang, **Dongyu Liu**, Kwan-Liu Ma

**arXiv** arXiv preprint, 2025.

2024 [P2] **CATP: Context-Aware Trajectory Prediction with Competition Symbiosis**

Jiang Wu, **Dongyu Liu**, Yuchen Lin, Yingcai Wu

**arXiv** arXiv preprint, 2024.

2023 [P3] **Pyreal: A Framework for Interpretable ML Explanations**

Alexandra ZYTEK, Wei-En Wang, **Dongyu Liu**, Laure Berti-Equille, Kalyan Veeramachaneni

**arXiv** arXiv preprint, 2023.

2021 [P4] **AQeyes: Visual Analytics for Anomaly Detection and Examination of Air Quality Data**

**Dongyu Liu**, Kalyan Veeramachaneni, Alexander Geiger, Victor O.K. Li, Huamin Qu

**arXiv** arXiv preprint, 2021.

## **REFERRED WORKSHOP PAPERS, EXTENDED ABSTRACT, AND POSTERS**

2023 [O1] **Beep: Balancing Effectiveness and Efficiency when Finding Multivariate Patterns in Racket Sports**

Jiang Wu, **Dongyu Liu**, Ziyang Guo, Yingcai Wu

**KDD** KDD 2023 Workshop on Data Science and AI for Sports (DSAI4Sports).

2021 [O2] **Sibyl: Explaining Machine Learning Models for Better Child Welfare Decision Making**

Alexandra ZYTEK, **Dongyu Liu**, Rhema Vaithianathan, and Kalyan Veeramachaneni

**CHI** ACM Conference on Human Factors in Computing Systems - Extended Abstracts, 2021.

2020 [O3] **Understanding User-Bot Interactions for Small-Scale Automation in Open-Source Development**

**Dongyu Liu\***, Micah J. Smith\*, and Kalyan Veeramachaneni

**CHI** ACM Conference on Human Factors in Computing Systems - Extended Abstracts, 2020.

2015 [O4] **egoComp: A Node-link Based Technique for Visual Comparison of Ego-network**

**Dongyu Liu**, Fangzhou Guo, Bowen Deng, Huamin Qu, Yingcai Wu

**VIS** IEEE Visualization Conference - Exploring Graphs at Scale Workshop, 2015.

[O5] **ParkVis: Visual Analytic System for Population Movement in DinoFun World**

Abishek Puri, **Dongyu Liu**, Shaoyu Chen, Siwei Fu, Tianyu Wang, Yeukyin Chan, Huamin Qu

**VIS** IEEE Visualization Conference - VAST Challenge, 2015

2013 [O6] **InSide: Interactive Sketching for Image Database Exploration**

Hongxin Zhang, **Dongyu Liu**, Changan Wang

**CAD/Graphics** IEEE International Conference on Computer-Aided Design and Computer Graphics, 2013.

## **PATENTS**

2022 **Interpretable Visualization System for Graph Neural Network**

Dakuo Wang, Sijia Liu, Abel Valente, Chuang Gan, Bei Chen, **Dongyu Liu**, Yi Sun

U.S. Patent Publication [US20220101120A1](#), published on March 31, 2022.

2020 **System and Method for Large Scale Multidimensional Spatio-Temporal Data Analysis**

Panpan Xu, Liu Ren, **Dongyu Liu**

## INVITED TALKS

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### **Making Sense of Air Pollution Data to Inform Decisions in Underserved Communities**

Jul 2024 ChinaVis at Hong Kong, Panel of Visualization Aids Sustainable Development

### **Charting the Unseen: Visualization as the Pathway to Effective Human-AI Teaming**

Nov 2024 UC Davis, GGCS Research Salon, Human-Centered Computing

Jul 2024 Zhejiang University, Summer School

Apr 2024 UC Berkeley, 15th annual California Cognitive Science Conference (CCSC)

### **Signal Intelligence: Human-AI Teaming for Time Series Analytics**

Oct 2023 UC Davis, MADDD Seminars (Mathematics of Data and Decisions at Davis)

Oct 2023 UC Davis, Seminars in the Center for Spaceflight Research

Jul 2023 ChinaVis, Special Topic on VIS + AI

### **Make the Invisible Visible: Human-AI Teaming in Healthcare Data Analytics**

Oct 2023 UC Davis, ECS289H - Special Topics in Human-AI Interactions

Jul 2023 UC Davis, Interventional Biophotonics Week Symposium and Summer School

### **Human-AI Teaming for Decision-Making: Augmenting Human Intellect with Visualization and Human-Centered AI**

Jul 2023 Zhejiang University, Summer School

Mar 2023 UC Davis

Mar 2023 ETH Zürich

Mar 2023 Florida State University

Mar 2023 Purdue University

Jan 2023 Hong Kong University of Science and Technology

Dec 2022 Peking University

### **Sintel: An Overarching Ecosystem for End-to-End Time Series Anomaly Detection**

Jan 2022 Shangdong University, Interactive Data Exploration System (IDEAS) lab

Nov 2021 Hong Kong University of Science and Technology, VisLab

Jul 2021 Zhejiang University, Summer School

Jan 2021 Schlumberger

### **Combining Automated Analysis with Interactive Vis for Spatio-temporal Data Analysis**

Oct 2019 MIT, Data to AI Group

Aug 2018 Hong Kong University of Science and Technology, PhD Thesis Defense

May 2019 Hong Kong University of Science and Technology, RPG Student Forum & Tea Gathering

### **What Visualization Can Do for Explainable AIs**

Nov 2017 Bosch Research, AI Workshop

### **Things You Need to Know about Ph.D. Study**

May 2017 Zhejiang University 120th Anniversary

### **Use Big Urban Data for Citywide Optimal Location Selection**

Apr 2016 Zhejiang University, Workshop on Urban Computing

### **Learn to be a Good Full-Stack Developer as a Visualization Researcher**

Jan 2016 Zhejiang University, State Key Lab of CAD&CG

## Visual Analytics for Student Online Learning Behavior Analysis

Nov 2015 Microsoft Research Asia Symposium on Collaborative Research

Nov 2015 Workshop of WeChat-HKUST Joint Lab on AI Technology (WHAT LAB)

## TEACHING

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2025—	<b>ECS273 - Visual Analytics</b> [S25, S26] Instructor.	UC Davis
2024—	<b>ECS163 - Information Interfaces</b> [W24, S25, S26] Instructor.	UC Davis
2024—	<b>ECS289G - Human-AI Teaming</b> [S24] Instructor.	UC Davis
2023	<b>ECS272 - Information Visualization</b> [F23] Guest Instructor with Prof. Kwan-Liu Ma.	UC Davis
2021	<b>Kaufman Teaching Certificate Program (KTCP)</b> Completed 8 training workshops and 2 teaching demos as a trainee ( <a href="#">Certificate</a> ).	MIT

## ADVISING AND MENTORING

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### ADVISEES

PhD	Jianxing Zhao (CS) Madhumitha Venkatesan (CS) Yueqiao Chen (CS) Yu-Chia Huang (CS; Co-advised with Kwan-Liu Ma)
Master's	Guoruizhe Sun (CS) Himanshu Nimonkar (CS) Emily Guo (CS'25; MS Thesis; Now at PG&E)
UG	Suranjana Sooraj (Data Science) Xuyang Chen (Physics) Yuvraj Virk (CS) Boquan Fang (CS'24; Now at Amazon AWS) Yinkun Tang (CS'24; Now PhD at UIUC)
Visiting	Yichen Jiang (EE MS from Stanford University) Yuhan Huang (AI UG from Wuhan University) Ke Yao (CS UG from Wuhan University) Patrick Yao (CS UG from Hong Kong Univ) Juntong Chen (CS MS from East China Normal Univ; Now at Nvidia) Jiang Wu (CS PhD from Zhejiang Univ; Now at Hithink RoyalFlush)
Committee	Rong-Ching Chang (CS, PhD QE, as chair) Jicheng Wang (CS, MS Thesis) Mak Ahmad (CS, MS Thesis) Ariel J. Kamen (CS, MS Thesis) Claudio Spiess (CS, PhD QE) Junchao Chen (CS, PhD QE & Thesis) Sam Yu-Te Lee (CS, PhD QE & Thesis)



Hsiao-Ying Lu (CS, PhD QE & Thesis)

Jingchao Fang (CS'24, PhD Thesis)

Capstone Catherine Kang, Jacob Vogt, Hangyul Yun, Mihika Krishna (CS'24)

Jose Gavidia, Billy Ouattara, Seungeui Song, Roger Cheng (CS'24)

### MENTEES PRIOR TO UC DAVIS

PhD Rui Sheng (HKUST CSE)

Alexandera Zyttek (MIT EECS'24; Now Postdoc Fellow at Sierra AI)

Sara Pidò (PoliMi DADS'23; Now Postdoc at MIT)

Furui Cheng (HKUST CSE'22; Now Postdoc at ETH Zürich)

Yifang Wang (HKUST CSE'22; Now Postdoc at Northwestern)

Master's Sarah Alnegheimish (MIT EECS'22; Now PhD at MIT)

Romain Palazzo (EPFL CS/MATH'22; Now at DataCebo)

Lawrence Wong (MIT EECS'22; Now at Amazon)

Nassim Oufattole (MIT EECS'22; Now PhD at MIT)

Alexander Geiger (TUM IS'20; Now at MontBlancAI)

UG Rui Yao (MIT EECS'22; Now Master's at MIT)

Saarang Bondalapati (High School Intern; Now UG at Cornell)

Bowen Deng (HKUST CSE'17; Now at Pinterest)

Abishek Puri (HKUST CSE'16; Now at J.P. Morgan)

## SERVICE AND OUTREACH

### PAPER REVIEWING

Conf. IEEE VIS 2015—25, IEEE PacificVis 2016—24, EuroVis 2016—24, ChinaVis 2018—25, ACM CHI 2020—24, ACM CSCW 2022—23, ACM IUI 2019, IEEE DSAA 2022—23

Journal IEEE TVCG 2016—25, IEEE CG&A 2021, ACM TiS 2019/23, ACM IHCI 2021, TMLR 2022—24, VLDB Journal 2021, JVLIC 2018, IEEE TBD 2021, IEEE TNSE 2021, IEEE Access 2020

### EDITORIAL BOARDS

2023— **Associate Editor**, Young Advisory Board, Journal of Visual Informatics

### CONFERENCE COMMITTEES

2023—25 **Member**, Program Committee, IEEE VIS

2025 **Member**, Program Committee, VisMeetsAI workshop at IEEE PacificVis 2025

24/26 **Posters Co-Chair**, Organizing Committee, IEEE PacificVis

22/23/25 **Member**, Program Committee, ChinaVis

2022—23 **Member**, Program Committee, IEEE DSAA

2020—22 **Member**, Program Committee, IEEE VIS (short paper)

### COMMUNITY SERVICE

2024—25 **Member**, GGCS Admissions Committee, UC Davis.

2024 **Reviewer**, NSF Proposal Review Panel.



- 2024 **Member**, Recruitment Advisory Committee, UC Davis.
- 2022 **Mentor**, SES Graduate Application Assistance Program, MIT IDSS  
Assisted students from underrepresented groups in preparing PhD applications.
- 2021 **Peer Reviewer**, Mock Faculty Job Talk, MIT LIDS
- 2020 **Program Committee**, C3.ai Digital Transformation Institute Research Award  
The awards are created to address Mitigation of COVID-19 and Future Pandemics.
- 2018—19 **Weekly Seminar Coordinator** (>30 participants), HKUST VisLab
- 2018 **Student Volunteer**, IEEE VIS 2018

## MEDIA COVERAGE

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- Jul 2025 **Point-of-Care Cardiovascular Assessment for Earlier Detection of Preeclampsia and Heart Failure in At-Risk Pregnant Patients**  
[CITRIS and the Banatao Institute](#), by Anna Linn
- Feb 2025 **Visualizing and Communicating Ambiguity for High-Stakes Collaboration**  
[UC Davis COE News](#), by Jessica Heath
- Aug 2023 **Cultivating Collaboration: Dr. Dongyu Liu Connects People to AI and with Each Other**  
[UC Davis COE News](#), by Jessica Heath
- Jun 2022 **Building Explainability into the Components of Machine Learning Models**  
[MIT News](#), by Adam Zewe (reproduced by [ScienceDaily](#) and [Dataconomy](#))
- Oct 2021 **Making Machine Learning More Useful to High-Stakes Decision Makers**  
[MIT News](#), by Adam Zewe (featured on the front page)
- Apr 2021 **One-Stop Machine Learning Platform Turns Health Care Data Into Insights**  
[MIT News](#), by MIT LIDS (reproduced by [Health IT Analytics](#))
- Dec 2020 **Method Finds Hidden Warning Signals in Measurements Collected Over Time**  
[MIT News](#), by Daniel Ackerman (reproduced by [Datanami](#))
- May 2019 **Cracking Open the Black Box of Automated Machine Learning**  
[MIT News](#), by Rob Matheson (reproduced by [InfoQ](#))
- Jun 2017 **From Taxi Trajectories to Outdoor Billboard Location Selection (Chinese)**  
[Top AI News](#), by Microsoft Research Asia