Dongyu Liu

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Davis, CA 95616

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dongyu.tech
vialab.tech
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PROFESSIONAL EXPERIENCE

Jul 2023 - Present — **Assistant Professor,** UC Davis
Department of Computer Science, College of Engineering

Sep 2019 - Mar 2023 — **Postdoctoral Associate,** MIT
Data-to-AI group, with Kalyan Veeramachaneni

Aug 2014 - Aug 2019 — **Research Assistant,** Hong Kong University of Science and Technology
VISLab, with Huamin Qu

Sep 2017 - Apr 2018 — **Research Intern,** Bosch Research
Human-Machine Intelligence Group, with PanPan Xu and Liu Ren

Jul 2016 - Apr 2017 — **Research Intern,** Microsoft Research Asia
Internet Graphics Group, with Weiwei Cui

Summer 2016 — **Research Intern,** Tencent
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

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 Research Award**. PI: Dongyu Liu, $55k
GenAI Native UIs for Advanced Data Analytics

PUBLICATIONS

* 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, 2026.

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, 2025.

[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, 2025.

[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, 2025.

[J6] InterChat: Enhancing Generative Visual Analytics using Multimodal Interactions
Juntong Chen, Jiang Wu, Jiajing Guo, Vikram Mohanty, Xueming Li, Jorge Piazentin Ono, Wenbin He, Liu Ren, **Dongyu Liu**
CGF Computer Graphics Forum.
> *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.
> *Special Issue: Proceedings of IEEE PacificVis 2025.*

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.
> *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.
> *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.

REFEREED CONFERENCE PROCEEDINGS

2026 [C1] ConceptTS: LLM-Guided Concept Bottlenecks for Interpretable Multivariate Time-Series Forecasting
Yichen Jiang, Yueqiao Chen, **Dongyu Liu**
BigData IEEE International Conference on Big Data (Short Paper), 2026.

[C2] DELUGE: Towards Continental-Scale Daily Pluvial Flood Damage Prediction via Interpretable Conditioning on Foundation Model Embeddings
Yuya Kawakami, Daniel Cayan, **Dongyu Liu**, Kwan-Liu Ma, Tom Corringham
SIGSPATIAL ACM International Conference on Advances in Geographic Information Systems, 2026 (in press).

[C3] VEIL: How Visual Encoding Hijacking Induces Bias In Vision Models
Suranjana Sooraj, Xuyang Chen, Madhumitha Venkatesan, **Dongyu Liu**
VIS IEEE VIS 2026 (Short Paper)

2025 [C4] 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), 2025.

2022 [C5] **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.

[C6] **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 [C7] **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.

[C8] **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 [C9] **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 [C10] **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

2026 [P1] **Structurally Speaking: Motif-Oriented Graph Captioning through Bidirectional Graph-Text Translation**
Hsiao-Ying Lu, **Dongyu Liu**, Kwan-Liu Ma
arXiv arXiv preprint, 2026.

[P2] **Constraint-Aware Synthetic Tabular Data Generation via Inter-Column Constraint Discovery with LLM Agents**
Jianxing Zhao, Mao Guan, **Dongyu Liu**
arXiv arXiv preprint, 2026.

[P3] **Plover: Steering GUI Agents through Plan-Centric Interaction**
Madhumitha Venkatesan, Shicheng Wen, Jiajing Guo, Jorge Piazentin One, Liu Ren, **Dongyu Liu**
arXiv arXiv preprint, 2026.

[P4] **ShapeTalk: Combining Natural Language and Sketch for Time-Series Pattern Querying**
Guoruizhe Sun, Yueqiao Chen, Emily Guo, Yutong Yao, **Dongyu Liu**
arXiv arXiv preprint, 2026.

[P5] **VTBench: A Multimodal Framework for Time-Series Classification with Chart-Based Representations**
Madhumitha Venkatesan, Xuyang Chen, **Dongyu Liu**
arXiv arXiv preprint, 2026.

2025 [P6] **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 [P7] **CATP: Context-Aware Trajectory Prediction with Competition Symbiosis**
Jiang Wu, **Dongyu Liu**, Yuchen Lin, Yingcai Wu
arXiv arXiv preprint, 2024.

2023 [P8] **Pyreal: A Framework for Interpretable ML Explanations**
Alexandra Zytek, Wei-En Wang, **Dongyu Liu**, Laure Berti-Equille, Kalyan Veeramachaneni
arXiv arXiv preprint, 2023.

2021 [P9] **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.

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

PATENTS

2026 **System and Method for Plan-Centric Supervision and Repair of Vision-Based Graphical User Interface Automation Agents**
Jiajing Guo, Jorge Henrique Piazentin Ono, Madhumitha Venkatesan, Shicheng Wen, **Dongyu Liu**, Wenbin He, Liu Ren
U.S. Patent Application 19/742,934, filed on July 15, 2026.

2024 **Interpretable Visualization System for Graph Neural Network**
Dakuo Wang, Sijia Liu, Abel Valente, Chuang Gan, Bei Chen, **Dongyu Liu**, Yi Sun
U.S. Patent 12,182,698, issued on December 31, 2024.

2020 **System and Method for Large Scale Multidimensional Spatio-Temporal Data Analysis**
Panpan Xu, Liu Ren, **Dongyu Liu**
U.S. Patent 10846321, issued on November 24, 2020.

INVITED TALKS

Agentic Interfaces for Advanced Data Analytics
Aug 2026 Bosch Research and Technology Center, Sunnyvale, CA, USA

Multimodal and Plan-Centric Interaction for Generative Visual Analytics
Jul 2026 ChinaVIS 2026 International Forum, Guiyang, China (Virtual)

Making Sense of Air Pollution Data to Inform Decisions in Underserved Communities
Jul 2024 ChinaVis 2024, Hong Kong, Panel of Visualization Aids Sustainable Development (Invited Talk and Panelist)

Charting the Unseen: Visualization as the Pathway to Effective Human-AI Teaming
Nov 2024 UC Davis, GGCS Fall Research Salon, Alumni Center
Jul 2024 Zhejiang University, Summer School of Visual Analytics, Hangzhou, China
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

2025— **ECS273 - Visual Analytics** *UC Davis*
[S25, S26] Instructor.

2024— **ECS163 - Information Visualization** *UC Davis*
[W24, S25, S26] Instructor.

2024 **ECS289G - Human-AI Teaming** *UC Davis*
[S24] Instructor.

2023 **ECS272 - Information Visualization** *UC Davis*
[F23] Guest Instructor with Prof. Kwan-Liu Ma.

2021 **Kaufman Teaching Certificate Program (KTCP)** *MIT*
Completed 8 training workshops and 2 teaching demos as a trainee (Certificate).

ADVISING AND MENTORING

ADVISEES

PhD **Jianxing Zhao** (CS; Sep 2025 — Present)
Madhumitha Venkatesan (CS; Sep 2025 — Present)
Yueqiao Chen (CS; Sep 2024 — Present)
Yu-Chia Huang (CS; Co-advised with Kwan-Liu Ma; Sep 2023 — Present)

Master's **Hima Harish Verma** (CS; Sep 2026 — Present)
Wilson Schwegler (CS; Sep 2026 — Present)
Zihang Fu (CS; Sep 2026 — Present)
Yan Liang (CS; Jun 2026 — Present)
Gunwoo Kim (CS'26; MS Project; Sep 2025 — Jun 2026)
Guoruizhe Sun (CS'26; MS Project; Jul 2025 — Jun 2026)
Himanshu Nimonkar (CS; Mar 2025 - July 2025)
Emily Guo (CS'25; MS Thesis; Now at PG&E; Mar 2024 - Jun 2025)

UG **Aadya Madgula** (Stats & CS; Sep 2026 — Present)
Sabrina Cheung (Data Sci.; Jun 2026 — Present)
Linh Huynh (CS; Summer 2026)
Suranjana Sooraj (Data Sci.; Now at HPE; Sep 2025 — Apr 2026)
Xuyang Chen (Applied Physics; CS minor; Feb 2025 — Apr 2026)
Yuvraj Virk (CS; Now PhD at UIUC; Jul 2024 — Jan 2025)
Boquan Fang (CS'24; Now at Amazon AWS; Mar 2024 — Jun 2024)

	Yinkun Tang (CS'24; Now PhD at UIUC; Mar 2024 — Jun 2024)
Visiting	**Jingdi Wu** (MS from Rutgers University; Summer 2026)
	Ruqi Sun (UG from SUSTech; Summer 2026)
	Yichen Jiang (EE MS from Stanford University; Sep 2025 — Aug 2026)
	Yuhan Huang (AI UG from Wuhan University; Now MS at UCLA; Summer 2026)
	Ke Yao (CS UG from Wuhan University; Now MS at CMU; Summer 2026)
	Patrick Yao (CS UG from Hong Kong Univ; Now MS at CMU; May 2025 — Jul 2025)
	Juntong Chen (CS MS from East China Normal Univ; Now at Nvidia; Sep 2024 - Mar 2025)
	Jiang Wu (CS PhD from Zhejiang Univ; Now at HiThink; Oct 2023 - Apr 2024)
Thesis Committee	**Raiyan Jahangir** (PhD Thesis; In progress)
	Yuya Kawakami (PhD Thesis; In progress)
	Yun-Hsin Kuo (PhD Thesis; In progress)
	Sam Yu-Te Lee (PhD Thesis; In progress)
	Hsiao-Ying Lu (PhD Thesis; Jun 2026)
	Junchao Chen (PhD Thesis; Jun 2026)
	Mak Ahmad (PhD Thesis; Dec 2025)
	Jeremy Wang (MS Thesis; Dec 2025)
	Ariel Kamen (MS Thesis; Jun 2025)
	Jingchao Fang (PhD Thesis; Jun 2024)
Capstone (ECS 193)	**Catherine Kang, Jacob Vogt, Hangyul Yun, Mihika Krishna** (CS'24; BirdMig; 2024)
	Jose Gavidia, Billy Ouattara, Seungeui Song, Roger Cheng (CS'24; GenCartoon; 2024)

MENTEES PRIOR TO UC DAVIS

PhD	**Rui Sheng** (HKUST CSE)
	Alexandera Zytek (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)
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)

SERVICE AND OUTREACH

CONFERENCE ORGANIZATION COMMITTEE

2027	IEEE VIS (Technology Chair), IEEE PacificVis (VisNotes (Short Papers) Chair)
2026	IEEE PacificVis (Posters Chair)
2024	IEEE PacificVis (Posters Chair)

PC MEMBER

2026	IEEE VIS (Short Papers), ChinaVis
2025	IEEE VIS, ChinaVis, VisMeetsAI Workshop at IEEE PacificVis
2024	IEEE VIS
2023	IEEE VIS, ChinaVis, IEEE DSAA
2022	IEEE VIS (Short Papers), ChinaVis, IEEE DSAA
2021	IEEE VIS (Short Papers)
2020	IEEE VIS (Short Papers)

EDITORIAL BOARDS

2023—26 **Associate Editor**, Young Advisory Board, Journal of Visual Informatics

PAPER REVIEWING

Conf. IEEE VIS, IEEE PacificVis, EuroVis, ChinaVis,
ACM CHI, ACM CSCW, ACM IUI, ACM UIST, IEEE DSAA, ACL Rolling Review

Journal IEEE TVCG, IEEE CG&A, Comput. Graph. Forum, ACM TiiS, IJHCI,
TMLR, VLDB Journal, JVLC,
IEEE TBD, IEEE TKDE, IEEE TNSE, IEEE Access

GRANT REVIEW PANELS

2025 **Evaluation Committee**, NSERC–CSE Research Communities.

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

2020 **Program Committee**, C3.ai Digital Transformation Institute Research Award
The awards are created to address Mitigation of COVID-19 and Future Pandemics.

UNIVERSITY SERVICE

2024—26 **Member**, GGCS Admissions Committee, UC Davis.

2024 **Panelist**, AI in Interventional Biophotonics, Interventional Biophotonics Week Symposium and Summer School, UC Davis.

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

MEDIA COVERAGE

Apr 2026 **New Visual Analysis Tool Calms the Climate Data Storm**
UC Davis COE News, by Jessica Heath

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