Assistant Professor · The Ohio State University, Columbus, OH, USA

 $\mathsf{Director}\,\cdot\,\mathsf{The}\,\mathsf{Data}\,\mathsf{Analytics},\mathsf{Understanding},\mathsf{Mining},\mathsf{and}\,\mathsf{Management}\,(\mathsf{DATUM})\,\mathsf{Lab}$

🛛 john@paparrizos.org | 🍘 www.paparrizos.org | 🖸 johnpaparrizos | 🖬 johnpaparrizos | 🔰 @thedatumorg | 🔓 Google Scholar

Research Interests

DATA ANALYTICS · DATA MANAGEMENT · DATA MINING · DATA SCIENCE · APPLIED MACHINE LEARNING · TIME-SERIES ANALYSIS

My research enables the next generation of **data-intensive and machine-learning applications**. My work addresses the lack of **task-aware and data-driven adaptations** for managing and analyzing structured and unstructured data, such as relational, time-series, multimedia, text, graphs, Web, and IoT data. My adaptative solutions, from compression, representation, and indexing to computational methods, exploit data similarities, densities, shapes, and distributions, and lead to significant effectiveness and performance gains for large-scale data science applications.

Education

Columbia University PH.D. IN COMPUTER SCIENCE, GPA: 4.14/4.00 (ADVISOR: LUIS GRAVANO)	New York, NY, USA October, 2018
 Thesis: "Fast, Scalable, and Accurate Algorithms for Time-Series Analysis" Q 2019 ACM SIGKDD Doctoral Dissertation Award, Honorable Mention 	
Columbia University	New York, NY, USA
M.Phil. in Computer Science, gpa: 4.14/4.00 (Advisor: Luis Gravano)	May, 2015
École Polytechnique Fédérale de Lausanne (EPFL)	Lausanne, Switzerland
M.S. in Computer Science, "Excellent" Distinction (Advisor: Karl Aberer)	October, 2011
Aristotle University of Thessaloniki (AUTH)	Thessaloniki, Greece
B.S. in Computer Science, "Excellent" Distinction & Salutatorian (Advisor: Athena Vakali)	July, 2009
University Experience	
The Ohio State University (OSU)	Columbus, OH, USA
Assistant Professor, Department of Computer Science and Engineering	2022 - Present
Director, The D ata A naly t ics, U nderstanding, M ining, and M anagement (DATUM) Lab	2022 - Present
University of Chicago	Chicago, IL, USA
Postdoctoral Researcher, Department of Computer Science (Advisors: Michael Franklin and Aaron Elmore)	2018 - 2022
Columbia University	New York, NY, USA
Graduate Research Assistant, Department of Computer Science (Advisor: Luis Gravano)	2012 - 2018

École Polytechnique Fédérale de Lausanne (EPFL)

Research Assistant, School of Computer and Communication Sciences (Advisor: Karl Aberer)

Awards, Honors, Achievements, and Fellowships

Awards, Honors, and Achievements

IEEE TCDE Rising Star Award

2023	The IEEE Technical Committee on Data Engineering (TCDE) recognizes internationally an individual's work in the first five years after the Ph.D. degree. Citation: "For breakthroughs in time series data management, as well as contributions to adaptive methodologies for data intensive and machine learning applications."	IEEE TCDE
2023	"Best Reviewer" Award The ACM Special Interest Group on Knowledge Discovery and Data Mining (SIGKDD) recognizes reviewers of the main research track of ACM SIGKDD 2023 for "their very hard and conscientious work." (30 out of 1411)	ACM SIGKDD
2019	ACM SIGKDD Doctoral Dissertation Award, <i>Honorable Mention</i> The ACM Special Interest Group on Knowledge Discovery and Data Mining (SIGKDD) recognizes "outstanding doctoral dissertations in the areas of data science, machine learning, and data mining" internationally.	ACM SIGKDD
2018	NetApp Faculty Award Recognizes faculty "pursuing cutting-edge research in data management." First time awarded to a postdoc.	NetApp
2016	Front page of The New York Times covers research on (first-authored) [L5] Media coverage of our study on building a screening solution for devastating diseases using Web search logs.	The New York Times

Lausanne, Switzerland

2009 - 2011

2016	ISSI "Paper of the Year" Award Finalist for [L4]ISSI SocietyThe International Society for Scientometrics and Informetrics (ISSI) recognizes "high quality research in theISSI Societyfield of Scientometrics and Informetrics." In the ten finalists, voted among publications from 2014 to 2016.ISSI Society	
2016	ACM SIGMOD Research Highlight Award for (first-authored) [L1] The ACM Special Interest Group on Management of Data (SIGMOD) recognizes projects across premier database conferences that "exemplify core database research, address an important problem, represent a definitive milestone in solving the problem, and have the potential of significant impact."	
2015	"Best of ACM SIGMOD" for (first-authored) [L1] Our paper was one of the two best papers of ACM SIGMOD International Conference on Management of Data.	
Fellow	SHIPS AND SCHOLARSHIPS	
2016	Paul Nichoplas Scholarship, Columbia University Recognizes graduate or undergraduate students of Greek ancestry. Covers stipend and tuition expenses.	
2014	Alexander S. Onassis Foundation Fellowship (3 Ph.D. fellows in computer science out of 1000+ submissions in all areas.) Recognizes Greek graduate students with outstanding academic record.	
2013	 Empirikion Foundation Scholarship (acceptance rate ~10%) Recognizes Greek scholars in Medicine, Physics, Chemistry, Biology, Mathematics, Computer Science, and Engineering areas. 	
2012	Gerondelis Scholarship Recognizes students of Greek ancestry ranked at the top of their class.	
2011	A. G. Leventis Foundation Fellowship (acceptance rate \sim 10%) Recognizes Greek graduate students in Social Sciences, Technology, Arts, Natural Sciences, Medical, and Business fields.	
2010	Zeno Karl Schindler Foundation Scholarship	
2009	The General Michael Arnaoutis Foundation Scholarship (acceptance rate ~10%) Recognizes top Greek undergraduate students in Computer Science and Engineering fields for post-graduate studies abroad.	
Indus	stry Experience	

Microsoft Research	Redmond, WA, USA
Research Intern (Mentors: Eric Horvitz, Ryen White, and Fernando Diaz)	
Yahoo! Research Labs	Barcelona, Spain
Research Intern (Mentor: Aris Gionis)	2011
Logitech	Lausanne, Switzerland
Project Management Intern (Mentor: VP of Product Marketing, Denis Pavillard)	2010
Visiting Positions	
Université Paris Cité	Paris, France
Visiting Professor, Department of Computer Science (Host: Themis Palpanas)	December 2022
University of Illinois, Urbana-Champaign (UIUC) Champaign, IL, U	
Visiting Scholar, Department of Computer Science (Host: Jiawei Han) Summer 20	
Funding and Gifts	
2023 Cisco Systems , Unrestricted Research Gift; Sole PI	\$ 100,000
2022 Meta Platforms, Unrestricted Research Gift; Sole Pl	\$ 50,000
2020 Exelon Utitlies, Unrestricted Research Gift; Sole PI	\$ 150,000
2019 Cisco Systems, Unrestricted Research Gift; Sole PI	\$ 73,000
2018 NetApp, Unrestricted Research Gift; Sole PI	\$ 50,000
Invited Talks	

CONFERENCES

2023	Executive Lunch, IEEE International Conference on Data Engineering (IEEE ICDE 2023)	Anaheim, CA, USA
2019	Awards Session, ACM SIGKDD Conference on Knowledge Discovery and Data Mining (ACM SIGKDD 201	, ,
2019	Awards Session, Acm Signable Conference on Knowledge Discovery and Data Mining (Acm Signable 201) Anchoruge, AN, USA
Univer	SITIES & INDUSTRY	
2023	Translational Data Analytics Institute, The Ohio State University	Columbus, OH, USA
2023	Department of Computer Science and Engineering, The Ohio State University	Columbus, OH, USA
2023	Amazon	Luxembourg, Luxembourg
2023	Cisco Systems	San Jose, CA, USA

2022	Computer Science Department, Université Paris Cité	Paris, France
2022	School of Informatics, Aristotle University of Thessaloniki	Thessaloniki, Greece
2022	Stern School of Business, New York University	New York, NY, USA
2022	Department of Computer Science and Engineering, The Ohio State University	Columbus, OH, USA
2022	School of Computer and Communication Sciences, École Polytechnique Fédérale de Lausanne	Lausanne, Switzerland
2022	Department of Computer Science and Engineering, University of California, San Diego	La Jolla, CA, USA
2022	Halıcıoğlu Data Science Institute, University of California, San Diego	La Jolla, CA, USA
2022	Centre National de la Recherche Scientifique (CNRS)	Paris, France
2022	Computer Science Department, Columbia University	New York, NY, USA
2022	Department of Computer and Information Science, University of Pennsylvania	Philadelphia, PA, USA
2022	Khoury College of Computer Sciences, Northeastern University	Boston, MA, USA
2022	Department of Computer Science, University of Illinois, Chicago	Chicago, IL, USA
2022	Computer Science Department, New York University	New York, NY, USA
2022	Department of Electrical and Computer Engineering, University of Southern California	Los Angeles, CA, USA
2021	Computer Science Department, Columbia University	New York, NY, USA
2021	School of Computer Science, Mohammed VI Polytechnic University	Ben Guerir, Morocco
2020	Computer Science Department, Columbia University	New York, NY, USA
2019	Department of Computer Science, University of Chicago	Chicago, IL, USA
2019	Department of Computer Science, Boston University	Boston, MA, USA
2018	Department of Computer Science, University of Chicago	Chicago, IL, USA
2017	Computer Science Department, Stanford University	Stanford, CA, USA

Publications _____

PAPERS (REGULAR/LONG) IN REFEREED JOURNALS AND CONFERENCES

Proc. VLDB 2023 Journal	"Accelerating Similarity Search for Elastic Measures: A Study and New Generalization of Lower Bounding Distances" JOHN PAPARRIZOS , KAIZE WU, AARON ELMORE, CHRISTOS FALOUTSOS, AND MICHAEL J. FRANKLIN <i>Proceedings of the VLDB Endowment (PVLDB 2023) Journal, Volume 16, pages 2019-2032</i>	[L20]
Proc. VLDB 2023 Journal	"Choose Wisely: An Extensive Evaluation of Model Selection for Anomaly Detection in Time Series" Емманоціг Sylligardos, Paul Boniol, John Paparrizos , Panos Trahanias, and Themis Palpanas Proceedings of the VLDB Endowment (PVLDB 2023) Journal, Volume 16, pages 3418-3432	[L19]
UbiComp 2023 Conference	"AMIR: Active Multimodal Interaction Recognition from Video and Network Traffic in Connected Environments" SHINAN LIU, TARUN MANGLA, TED SHAOWANG, JINJIN ZHAO, JOHN PAPARRIZOS , SANJAY KRISHNAN, AND NICK FEAMSTER ACM International Joint Conference on Pervasive and Ubiquitous Computing (ACM Ubicomp 2023), pages 1-26	[L18]
Proc. VLDB 2022 Journal	"Volume Under the Surface: A New Accuracy Evaluation Measure for Time-Series Anomaly Detection" JOHN PAPARRIZOS, PAUL BONIOL, THEMIS PALPANAS, RUEY S. TSAY, AARON ELMORE, AND MICHAEL J. FRANKLIN Proceedings of the VLDB Endowment (PVLDB 2022) Journal, Volume 15, pages 2774-2787	[L17]
Proc. VLDB 2022 Journal	"TSB-UAD: An End-to-End Benchmark Suite for Univariate Time-Series Anomaly Detection" John Paparrizos, Yuhao Kang, Paul Boniol, Ruey S. Tsay, Themis Palpanas, and Michael J. Franklin Proceedings of the VLDB Endowment (PVLDB 2022) Journal, Volume 15, pages 1697–1711	[L16]
ICDE 2022 Conference	"Fast Adaptive Similarity Search through Variance-Aware Quantization" JOHN PAPARRIZOS , IKRADUYA EDIAN, CHUNWEI LIU, AARON ELMORE, AND MICHAEL J. FRANKLIN 38 th IEEE Int. Conference on Data Engineering (IEEE ICDE 2022), pages 2969-2983	[L15]
CIDR 2021 Conference	"VergeDB: A Database for IoT Analytics on Edge Devices" John Paparrizos, Chunwei Liu, Bruno Barbarioli, Johnny Hwang, Ikraduya Edian, Aaron Elmore, et al. 11 th Conference on Innovative Data Systems Research (CIDR 2021), pages 1-8	[L14]
SIGMOD 2021 Conference	"Good to the Last Bit: Data-Driven Encoding with CodecDB" Hao Jiang, Chunwei Liu, John Paparrizos , Andrew Chien, Jihong Ma, and Aaron Elmore 2021 ACM SIGMOD Int. Conference on Management of Data (ACM SIGMOD 2021), pages 843-856	[L13]
Proc. VLDB 2021 Journal	"Decomposed Bounded Floats for Fast Compression and Queries" Снилwei Liu, Hao Jiang, John Paparrizos , and Aaron Elmore Proceedings of the VLDB Endowment (PVLDB 2021) Journal, Volume 14, pages 2586-2598	[L12]

Proc. VLDB 2021 Journal	"SAND: Streaming Subsequence Anomaly Detection" PAUL BONIOL, JOHN PAPARRIZOS , THEMIS PALPANAS, AND MICHAEL FRANKLIN Proceedings of the VLDB Endowment (PVLDB 2021) Journal, Volume 14, pages 1717-1729	[L11]
SIGMOD 2020 Conference	"Debunking Four Long-Standing Perceptions in Time-Series Analytics" JOHN PAPARRIZOS, CHUNWEI LIU, AARON ELMORE, AND MICHAEL FRANKLIN 2020 ACM SIGMOD Int. Conference on Management of Data (ACM SIGMOD 2020), pages 1887-1905	[L10]
Proc. VLDB 2020 Journal	"PIDS: Attribute Decomposition for Improved Compression and Query Performance in Columnar Storage" HAO JIANG, CHUNWEI LIU, QI JIN, JOHN PAPARRIZOS AND AARON ELMORE <i>Proceedings of the VLDB Endowment (VLDB 2020) Journal, Volume 13, pages 925-938</i>	[L9]
Proc. VLDB 2019 Journal	"GRAIL: Efficient Time-Series Representation Learning" JOHN PAPARRIZOS AND MICHAEL FRANKLIN Proceedings of the VLDB Endowment (VLDB 2019) Journal, Volume 12, pages 1762-1777	[L8]
ICML 2019 Conference	"Band-limited Training and Inference for Convolutional Neural Networks" ADAM DZIEDZIC [‡] , JOHN PAPARRIZOS [‡] , SANJAY KRISHNAN, AARON ELMORE, AND MICHAEL FRANKLIN 36 th Int. Conference on Machine Learning (ICML 2019), pages 1745-1754 ([‡] : Equal contribution)	[L7]
TODS 2017 Journal	"Fast and Accurate Time-Series Clustering" JOHN PAPARRIZOS AND LUIS GRAVANO ACM Transactions on Database Systems (ACM TODS 2017) Journal, Volume 42, 49 pages	[L6]
	 "Screening for Pancreatic Adenocarcinoma using Signals from Web Search Logs" JOHN PAPARRIZOS, RYEN W. WHITE, AND ERIC HORVITZ Journal of Oncology Practice (JOP 2016), Volume 12, pages 737-744 COVERED BY THE NEW YORK TIMES, THE WASHINGTON POST, AND OTHER MEDIA OUTLETS 	[L5]
JASIST 2016 Journal	 "Predicting the impact of scientific concepts using full text features" KATHY MCKEOWN⁺, HAL DAUME⁺, SNIGDHA CHATURVEDI⁺, JOHN PAPARRIZOS⁺, KAPIL THADANI⁺, ET AL. Journal of the American Society for Information Science and Technology (JASIST 2016), Volume 67, pages 2684-2696 *: Lead PIs; [‡]: Lead student authors in alphabetical order Q ISSI "PAPER OF THE YEAR" AWARD, FINALIST 	[L4]
	 "The Social Dynamics of Language Chance in Online Networks" RAHUL GOEL, SANDEEP SONI, NAMAN GOYAL, JOHN PAPARRIZOS, HANNA WALLACH, ET AL. 8th Int. Conference on Social Informatics (SocInfo 2016), pages 41-57 COVERED BY FAST COMPANY 	[L3]
SIGKDD 2016 Conference	"Detecting Devastating Diseases in Search Logs" JOHN PAPARRIZOS, RYEN W. WHITE, AND ERIC HORVITZ 2016 ACM SIGKDD Int. Conference on Knowledge Discovery and Data Mining (ACM SIGKDD 2016), pages 559-568	[L2]
SIGMOD 2015 Conference	 "k-Shape: Efficient and Accurate Clustering of Time Series" JOHN PAPARRIZOS AND LUIS GRAVANO 2015 ACM SIGMOD Int. Conference on Management of Data (ACM SIGMOD 2015), pages 1855-1870 "BEST OF ACM SIGMOD" ACM SIGMOD RESEARCH HIGHLIGHT AWARD 	[L1]
TUTORIALS IN	REFEREED JOURNALS AND CONFERENCES	
EDBT 2023 Conference	"New Trends in Time Series Anomaly Detection" PAUL BONIOL, JOHN PAPARRIZOS , AND THEMIS PALPANAS International Conference on Extending Database Technology (EDBT 2023), pages 847-850	[T1]
Demonstrations in Refereed Journals and Conferences		
Proc. VLDB 2023 Journal	"Odyssey: An Engine Enabling The Time-Series Clustering Journey" John Paparrizos and Teja Bogireddy Proceedings of the VLDB Endowment (PVLDB 2023) Journal, Demo track, pages 4066-4069	[D4]
Proc. VLDB 2022 Journal	"Theseus: Navigating the Labyrinth of Time-Series Anomaly Detection" PAUL BONIOL, JOHN PAPARRIZOS , YUHAO KANG, THEMIS PALPANAS, RUEY S. TSAY, ET AL. <i>Proceedings of the VLDB Endowment (VLDB 2022) Journal, Demo track, Volume 15, pages 3702-3705</i>	[D3]

Proc. VLDB 2021 Journal	"SAND in Action: Subsequence Anomaly Detection for Streams" PAUL BONIOL, JOHN PAPARRIZOS , THEMIS PALPANAS, AND MICHAEL FRANKLIN Proceedings of the VLDB Endowment (VLDB 2021) Journal, Demo track, Volume 14, pages 2867-2870	[D2]
ICDE 2011 Conference	"Advanced Search, Visualization, and Tagging of Sensor Metadata" JOHN PAPARRIZOS , HOYOUNG JEUNG, AND KARL ABERER 27 th IEEE Int. Conference on Data Engineering (IEEE ICDE 2011), Demo track, pages 1356-1359	[D1]
OTHER REFE	reed Papers (e.g., Short or Invited Papers)	
DEB 2023 Journal	"Querying Time-Series Data: A Comprehensive Comparison of Distance Measures" JOHN PAPARRIZOS, CHUNWEI LIU, AARON ELMORE, AND MICHAEL FRANKLIN IEEE Data Engineering Bulletin (DEB 2023), Volume 47, pages 69-88	[S9]
PowerTech 2021 Conference	"k-ShapeStream: Probabilistic Streaming Clustering for Electric Grid Events" Монілі Вагіча, Alexandra von Meier, John Paparrizos , and Michael Franklin 14 th IEEE PowerTech Conference (PowerTech 2021), pages 1-6	[S8]
OSR 2019 Journal	"Artificial intelligence in resource-constrained and shared environments" Sanjay Krishnan, Aaron Elmore, Michael Franklin, John Paparrizos , Zechao Shang, et al. <i>ACM SIGOPS Operating Systems Review (OSR 2019), Volume 53, pages 1-6</i>	[S7]
PROMS 2013 Book Series	"A tight bound on the worst-case number of comparisons for Floyd's heap construction algorithm" JOHN PAPARRIZOS Proceedings in Mathematics and Statistics, PROMS 2013), Volume 31, pages 153-162	[S6]
PROMS 2013 Book Series	"Homogeneous and non-homogeneous algorithms" Јонн Рарактиzos Proceedings in Mathematics and Statistics, PROMS 2013), Volume 31, pages 241-248	[S5]
RecSys 2011 Conference	"Machined Learned Job Recommendation" John Paparrizos, Berkant B. Cambazoglu, and Aristides Gionis 5 th ACM Conference on Recommender Systems (ACM RecSys 2011), pages 325-328	[S4]
LCN 2011 Conference	"Quantitative analysis for authentication of low-cost RFID tags" JOHN PAPARRIZOS , STYLIANOS BASAGIANNIS, AND SOPHIA PETRIDOU 36 th IEEE Conference on Local Computer Networks (IEEE LCN 2011), pages 295-298	[S3]
SUTC 2010 Conference	"Effective Metadata Management in Federated Sensor Networks" Hoyoung Jeung, Sofiane Sarni, John Paparrizos , Saket Sathe, Karl Aberer, et al. 2010 IEEE Int. Conference on Sensors, Ubiquitous, and Trustworthy Computing (IEEE SUTC 2010), pages 107-114	[S2]
HT 2010 Conference	"Automatic extraction of structure, content and usage data statistics of web sites" JOHN PAPARRIZOS, VASO KOUTSONIKOLA, LEFTERIS ANGELIS, AND ATHENA VAKALI 21 st ACM conference on Hypertext and Hypermedia (ACM HT 2010), pages 301–302	[S1]
Patents		

Patents

"Fast Multi-Dimensional Search Based on Variance-Aware Quantization", John Paparrizos, Ikraduya Edian,
 Chunwei Liu, Aaron Elmore, and Michael J. Franklin. (Application 63/188,332 on 5/2021 - US Patent Office)

Teaching Experience

The Ohio State University	Columbus, OH, USA
Instructor for "Advanced Database Systems" Course - 43 students (Instructor Overall Rating: 4.4/5.0)	Fall 2023
Instructor for "Introduction to Data Mining" Course - 43 students (Instructor Overall Rating: 4.1/5.0)	Fall 2023
Instructor for "Readings in Data Analytics" Course - 10 students (Instructor Overall Rating: 4.4/5.0)	Spring 2023
Instructor for "Introduction to Data Mining" Course - 56 students (Instructor Overall Rating: 4.4/5.0)	Fall 2022
University of Chicago	Chicago, IL, USA
Mentor for "Data Science Clinic" Course	Fall 2021 & Winter 2022
GUEST LECTURER FOR "DATABASES" COURSE (INSTRUCTOR: AARON ELMORE)	Fall 2019
Boston University	Boston, MA, USA
Guest Lecturer for "Data Systems Architectures" Course (Instructor: Manos Athanassoulis)	Spring 2019
Columbia University	New York, NY, USA
Guest Lecturer for "Advanced Database Systems" Course (Instructor: Luis Gravano)	Fall 2015 & 2017, Spring 2020 - 2023
Teaching Assistant for "Advanced Database Systems" Course (TA Overall Rating: 5.0/5.0)	Fall 2015 & Fall 2017

Software Artifacts and Benchmarks Released

GLB [L20]Owww.timeseries.org/glb - A library evaluating 11 lower bounding measures spanning 7 elastic measuresAMIR [L18]Ohttps://amir-vidnet.github.io/ - Video and network data for interaction recognition in connected environmentsVUS [L17]Owww.timeseries.org/vus - A new accuracy evaluation measure for time-series anomaly detectionTSB-UAD [L16]Owww.timeseries.org/tsb-uad - An end-to-end anomaly detection benchmark suite with 12k+ time seriesVAQ [L15]Ohttps://github.com/TheDatumOrg/VAQ - A new product quantization method for fast adaptive similarity searchBUFF [L12]Owww.timeseries.org/tsdisteval - A library of 70+ time-series distance measures belonging in five categoriesGRAIL [L8]Owww.timeseries.org/grail - A library for similarity-preserving time-series representation learningBL-CNNs [L7]Owww.timeseries.org/bandlimited-cnns - Training and inference with frequency spectra constraints for CNNsk-Shape [L1]Owww.timeseries.org/kshape-python - A fast and accurate univariate time-series clustering algorithm

Mentoring Experience

Ph.D. Student Supervision

Ryan DeMilt	The Ohio State University, Ph.D., Jan 2024-now
Samin Kabir	The Ohio State University, Ph.D., Jan 2024-now
Suchit Gupte	The Ohio State University, Ph.D., Sept 2023-now
Haojun Li	The Ohio State University, Ph.D., Sept 2023-now
Qinghua Liu	The Ohio State University, Ph.D., Sept 2023-now
Fan Yang	The Ohio State University, Ph.D., Sept 2023-now
Paul Boniol	University of Paris, Ph.D., 2020-2022 (with Themis Palpanas), Next: Researcher at Inria
Mohini Bariya	University of California, Berkeley, Ph.D., Summer 2020 (with Alexandra von Meier), Next: Research Scientist at nLine
Chunwei Liu	University of Chicago, Ph.D., 2019-2022 (with Aaron Elmore), Next: Postdoc at MIT
Hao Jiang	University of Chicago, Ph.D., 2019-2021 (with Aaron Elmore), Next: Postdoc at Harvard University
Adam Dziedzic	University of Chicago, Ph.D., 2018-2019 (with Aaron Elmore & Sanjay Krishnan), Next: Postdoc at UToronto

M.S. STUDENT SUPERVISION

Purvi Gujarathi	The Ohio State University, M.S., 2023-
Yuhao Kang	University of Chicago, M.S., 2021-2022, Next: Software Engineer at Amazon
Teja Bogireddy	University of Chicago, M.S., 2020-2021, Next: Data Scientist at Exelon

M.S. COMMITTEES

Aditya Vadlamani	The Ohio State University, M.S. Thesis, 2023 (Advisor: Srinivasan Parthasarathy)
Nitin Balaji	The Ohio State University, M.S. Thesis, 2023 (Advisor: Xia Ning)

B.S. STUDENT SUPERVISION

Will Blanton	The Ohio State University, B.S., 2023-
Kaize Wu	University of Chicago, B.S., 2021-2023
Karhan Kayan	University of Chicago, B.S., 2020-2022, Next: Ph.D. student at Princeton University
Azam Mohsin	University of Chicago, B.S., 2020-2021, Next: Ph.D. student at Stanford University
Johnny Hwang	University of Chicago, B.S., 2020 (with Aaron Elmore), Next: Quantitative Developer at Arrowstreet Capital
Ikraduya Edian	Bandung Institute of Technology, B.S., 2020-2022 (with Aaron Elmore), Next: M.S. at the University of Edinburgh

Leadership, Service, & Extracurricular Activities

PROFESSIONAL MEMBERSHIPS

Association of Computing Machinery (**ACM**) Association for the Advancement of Artificial Intelligence (**AAAI**) Institute of Electrical and Electronics Engineers (**IEEE**)

ORGANIZATION

ACM SIGMOD Conference on Management of Data (**SIGMOD**), 2023 ACM SIGMOD Conference on Management of Data (**SIGMOD**), 2022 ACM SIGMOD Conference on Management of Data (**SIGMOD**), 2021-2023 International Conference on Very Large Data Bases (**VLDB**), 2019

SENIOR PROGRAM COMMITTEE MEMBER

International Joint Conference on Artificial Intelligence (IJCAI)

Lifetime member Lifetime member Member (since 2022)

2020-2021

Student Research Competition Committee **Proceedings Chair** Availability & Reproducibility Committee "Best Demo" Award Committee

Conference Program Committee (PC) Member

Databases & Data Analytics	
ACM SIGMOD Conference on Management of Data (SIGMOD)	2021, 2023-2025
International Conference on Very Large Data Bases (VLDB)	2019, 2023, 2025
IEEE International Conference on Data Engineering (ICDE)	2019-2020, 2022-2024
IEEE International Conference on Big Data (BigData)	2021-2023
International Conference on Extending Database Technology (EDBT)	2023, 2025
Data Mining	2022 2024
ACM SIGKDD Conference on Knowledge Discovery and Data Mining (SIGKDD)	2023-2024
ACM The Web Conference (WWW) SIAM International Conference on Data Mining (SDM)	2024 2024
	2027
Artificial Intelligence	
AAAI Conference on Artificial Intelligence (AAAI)	2022-2024
International Joint Conference on Artificial Intelligence (IJCAI)	2022-2024
Machine Learning	
International Conference on Machine Learning (ICML)	2020-2024
Neural Information Processing Systems (NeurIPS)	2021-2023
International Conference on Learning Representations (ICLR)	2021-2024
· · · · · · · · · · · · · · · · · · ·	
Workshops	
Workshop on Multivariate Time Series Analytics (MulTiSA @ ICDE)	2024
Workshop on Al for Time-Series Analysis (AI4TS @ AAAI or IJCAI)	2022, 2024
Workshop on Mining and Learning from Time Series (MiLeTS @ SIGKDD)	2022-2023
Workshop on Self-Managing Database Systems (SMDB @ ICDE)	2022
Invited Reviewer for Journals	
ACM Transactions on Database Systems (ACM TODS)	
IEEE Transactions on Knowledge and Data Engineering (IEEE TKDE)	
The Very Large Data Bases Journal (VLDBJ)	
ACM Transactions on Internet Technology (ACM TOIT)	
Data Mining and Knowledge Discovery (DMKD)	
Knowledge and Information Systems (KAIS)	
Distributed and Parallel Databases Journal (DAPD)	
Pattern Recognition	
Artificial Intelligence (AI) Journal	
Transactions on Machine Learning Research (TMLR)	
IEEE Transactions on Neural Networks and Learning Systems (IEEE TNNLS)	
Technometrics Quantitative Finance	
Operations Research Forum	
Journal of Information Science	
Information Sciences	
ACM Transactions on Computing for Healthcare (HEALTH)	
Journal of Medical Internet Research (JMIR)	
IEEE Journal of Biomedical and Health Informatics (JBHI)	
IEEE/CAA Journal of Automatica Sinica	
IEEE Access	
University Service	
OSU CSE Grad Studies Committee	2023, 2024
OSU CSE D&I Committee	2023, 2024
	2023, 2027

OSU CSE Graduate Admissions Committee

OSU Data I/O Hackathon Judge

2022, 2023

2022

LEADERSHIP AND OTHER ACTIVITIES

UChicago Match Program , I participated in internship and advising programs for students from 2020-2022 underrepresented, low-income, or first-generation backgrounds. I advised and offered paid research positions to Odyssey Scholars, Empower Scholars, and Metcalf Fellows.	UChicago
Provost's Office Postdoc Advisory Board , Communicated issues and coordinated efforts for 2019-2022 improving international affairs, diversity initiatives, and entrepreneurship IP conflicts.	UChicago
2019-2022 PSD Postdoc Representative at the Physical Sciences Division.	UChicago
2016, 2018 "CS Service" Awards, Organized social events and reviewed M.S. applications.	Columbia
2008-2009 ACM AUTH Student Chapter, Founder of the chapter (2008) and President from 2008 to 2009.	AUTH

Selected Press & Media Coverage

2020	"Digital Biomarkers Supersede Theranos: No Blood, No Jokes"	Forbes
2018	"Real-world evidence: From activity to impact in healthcare decision making"	McKinsey & Company
2017	"One nation divided by a common language"	Fast Company
2016	"Can you really spot cancer through a search engine?"	MIT Technology Review
2016	"Is it cancer? Diagnosing yourself online is about to get easier"	The Guardian
2016	"What happens when your search engine is first to know you have cancer"	The Washington Post
2016	"Microsoft finds cancer clues in search queries"	The New York Times
Refer	rences	

Aaron Elmore	Associate Professor of Computer Science at the University of Chicago	
Christos Faloutsos	Fredkin Professor of Computer Science at Carnegie Mellon University and an Amazon Scholar	
Michael Franklin	Morton D. Hull Professor of Computer Science and Co-Director of the Data Science Institute at the University of Chicago	
MICHUELFLUHKIII	(Previously, Thomas M. Siebel Professor and Chair of Computer Science Division at UC Berkeley)	
Luis Gravano	Professor of Computer Science at Columbia University	
Themis Palpanas	Senior Member of the French University Institute (IUF); Distinguished Professor in LIPADE, the Computer Science	
mennis r alpanas	Department of the Université Paris Cité ; and Director of the Data Intelligence Institute of Paris (diiP) and LIPADE	