# EVANGELOS E. PAPALEXAKIS

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## POSITIONS

- **University of California Riverside**, Riverside, CA (July 2024 - present)
  Ross Family Term Chair in Computer Science.
- **University of California Riverside**, Riverside, CA (July 2021 - present)
  Associate Professor at the CSE Department.
- **University of California Riverside**, Riverside, CA (August 2016 - July 2021)
  Assistant Professor at the CSE Department.
- **Carnegie Mellon University**, Pittsburgh, PA (September 2011 -August 2016)
  Graduate Researcher at the CS Department.
- **Google Research**, Mountain View, CA (May 2015 - August 2015)
  Software Engineering Intern at the Structured Data Group with Dr. Alon Halevy, Dr. Steven Whang, and Dr. Xiao Yu.
- **Microsoft Research - Silicon Valley**, Mountain View, CA (May 2014 - August 2014)
  Research Intern at the Search Labs with Dr. Rakesh Agrawal.
- **Microsoft Research - Silicon Valley**, Mountain View, CA (May 2013 - August 2013)
  Research Intern at the Interaction & Intent group with Dr. Ariel Fuxman and Dr. Ashok Chandra.
- **Technical University of Crete**, Chania, Greece (May 2010 - August 2011)
  Graduate Researcher at the ECE department.

## EDUCATION

- **Ph.D** in Computer Science
  **Carnegie Mellon University**, Computer Science Department, August 2011 - August 2016.
  Advisor: Prof. Christos Faloutsos.
  Thesis title: *Mining Large Multi-Aspect Data: Algorithms & Applications*
  Committee: Prof. Tom Mitchell, Prof. Nikos Sidiropoulos, Prof. Jeff Schneider.
- **M.Sc** in Electronic and Computer Engineering
  **Technical University of Crete**, Greece, March 2010 - July 2011 , Courses GPA: **9.625/10**
  Advisor: Prof. Nikos Sidiropoulos.
  Thesis title:: *Co-clustering as multilinear decomposition with sparse latent factors*.
  Committee: Prof. Athanasios Liavas & Prof. Minos Garofalakis.
- **Diploma** in Electronic and Computer Engineering
  **Technical University of Crete**, Greece, September 2005 - February 2010 (4.5 out of 5 years)
  Grade: **9.05/10 (Excellent- in the top 2% of all Department's graduates)**.
  Advisor: Prof. Nikos Sidiropoulos.
  Thesis title:: *Reviewer Profiling Using Factor Analysis*.
  Committee: Prof. Athanasios Liavas & Prof. Minos Garofalakis.

## HONORS & AWARDS

1. Appointed as the Ross Family Term Chair in Computer Science as of July 2024.
2. IEEE ICDM 2022 Tao Li Award 2022
3. IEEE Signal Processing Society Donald G. Fink Overview Paper Award 2022
4. IEEE DSAA Next Generation Data Scientist Award 2021

5. National Science Foundation CAREER Award 2021
6. Bourns College of Engineering Outstanding Teaching Award 2021
7. Outstanding Reviewer for ACM WSDM 2019 Conference
8. Best Poster Award at the 2019 International Conference on Data Intelligence and Security
9. Best Paper Award at the MIS2: Misinformation & Misbehavior Mining on the Web Workshop at WSDM 2018
10. Adobe Data Science Faculty Research Award 2017.
11. SIGKDD 2017 Doctoral Dissertation Award (runner-up).
12. Selected among the "20 rising stars" of the KDD community for 2016 by Microsoft Research Asia and Microsoft Academic Search.
13. Best Student Paper Award at SIAM SDM 2016.
14. Travel Award for the SIAM SDM 2016 Conference.
15. Finalist for the Facebook PhD Fellowship 2015.
16. Finalist for the Microsoft Research PhD Fellowship 2014 (29 out of 181 applications).
17. Best student paper award (runner-up) at PAKDD 2014.
18. Paper selected as "best of the conference" and fast-track special issue journal invitation for SDM 2020.
19. Papers selected as "best of the conference" and fast-track special issue journal invitation for WWW 2015 Web Science Track.
20. Papers selected as "best of the conference" and fast-track special issue journal invitation for SDM 2014.
21. Papers selected as "best of the conference" and fast-track special issue journal invitation for ASONAM 2013.
22. Travel Award for the 2014 SIAM Conference on Parallel Processing for Scientific Computing (PP14).
23. Performance Fellowship by the Technical University of Crete for the academic years 2005-2006, 2006-2007, 2007-2008 & 2008-2009 (top 10% of class).

## PRESS COVERAGE

Work on Fake News has been extensively covered by :

1. *Science News*: `www.sciencenews.org/article/can-computer-programs-flag-fake-news`
2. *Digital Trends*: `www.digitaltrends.com/cool-tech/snapchat-supporting-algorithm-fight-fake-news/`
3. NVIDIA AI Podcast: `blogs.nvidia.com/blog/2018/12/06/fake-news-ai-detect/`
4. Spoke to *The Guardian* regarding on related topics: `https://www.theguardian.com/world/2019/apr/15/notre-dame-fire-youtube-panels-show-9-11-attacks` `https://www.theguardian.com/world/2019/apr/22/sri-lankas-social-media-blackout-reflects-sense-that-online-dangers-outweigh-benefits`

## PUBLICATIONS

No. citations: **7093**
H-index: **36**
Source: `http://scholar.google.com/citations?user=2P1kinAAAAAJ&hl=en`, August 17, 2024

### REFEREED CONFERENCE PUBLICATIONS

1. Dawon Ahn, Uday Singh Saini, Evangelos E. Papalexakis, Ali Payani, *Neural Additive Tensor Decomposition for Sparse Tensors*, ACM CIKM 2024
2. Zubair Qazi, William Shiao, Evangelos E. Papalexakis, *GPT-generated Text Detection: Benchmark Dataset and Tensor-based Detection Method*, The Web Conference 2024, Short Paper

3. Dawon Ahn, William Shiao, Arindam Khaled, Andrew Bauer, Stefanos Poulis, Evangelos E. Papalexakis, *Compact Interpretable Tensor Graph Multi-Modal News Embeddings*, The Web Conference 2024, Short Paper
4. Uday Singh Saini, Zhongfang Zhuang, Chin-Chia Michael Yeh, Wei Zhang, Evangelos E. Papalexakis, *Analysis of Causal and Non-Causal Convolution Networks for Time Series Classification*, SIAM International Conference on Data Mining (SDM) 2024
5. Ethan Villalobos, Constantine Tarawneh, Jia Chen, Evangelos E. Papalexakis, and Ping. Xu, *Kernel Ridge Regression in Predicting Railway Crossing Accidents*, American Society of Mechanical Engineers (ASME) 2024 Joint Rail Conference (JRC2024), Columbia, SC, May 2024.
6. Ethan Villalobos, Hector Lugo, Biqian Cheng, Miguel Gutierrez, Constantine Tarawneh, Ping Xu, Jia Chen, and Evangelos E. Papalexakis , *Spectral Clustering in Railway Crossing Accidents Analysis*, American Society of Mechanical Engineers (ASME) 2024 Joint Rail Conference (JRC2024), Columbia, SC, May 2024.
7. William Shiao, Uday Singh Saini, Yozen Liu, Tong Zhao, Neil Shah, Evangelos E. Papalexakis, *CARL-G: Clustering-Accelerated Representation Learning on Graphs*, ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD) 2023.
8. William Shiao, Zhichun Guo, Tong Zhao, Evangelos E. Papalexakis, Yozen Liu, Neil Shah, *Link prediction with non-contrastive learning*, International Conference on Learning Representations (ICLR) 2023.
9. Ravdeep S Pasricha, Uday Singh Saini, Nicholas D Sidiropoulos, Fei Fang, Kevin Chan, *Evangelos E Papalexakis*, *Harvester: Principled Factorization-based Temporal Tensor Granularity Estimation*, SIAM International Conference on Data Mining (SDM) 2023
10. Negin Entezari, Evangelos E. Papalexakis, *Low-rank Defenses Against Adversarial Attacks in Recommender Systems*, IEEE International Conference on Big Data (Big Data) 2022
11. Yunshu Wu, Uday Singh Saini, Jia Chen, Evangelos E. Papalexakis, *TENALIGN: Joint Tensor Alignment and Coupled Factorization*, IEEE International Conference on Data Mining (ICDM) 2022
12. Negin Entezari, Evangelos E. Papalexakis, *TensorShield: Tensor-Based Defense Against Adversarial Attacks on Images*, Military Communications Conference (MILCOM) 2022
13. Ekta Gujral, Evangelos E. Papalexakis, *APTERA: Automatic PARAFAC2 Tensor Analysis*, IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM) 2022
14. Uday Singh Saini, Evangelos E. Papalexakis, *Multi-aspect Matrix Factorization based Visualization of Convolutional Neural Networks*, 9th IEEE International Conference on Data Science and Advanced Analytics (DSAA) 2022
15. Jia Chen, Dalia Orozco, Lizeth Figueroa, Evangelos E. Papalexakis, *Unsupervised Multiview Embedding of Node Embeddings*, Proceedings of Asilomar Conf. on Signals, Systems, and Computers, Pacific Grove, CA, November 2022
16. Sara Abdali, Subho Mukherjee, Evangelos E. Papalexakis, *Vec2Node: Self-training with Tensor Augmentation for Text Classification with Few Labels*, European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD) 2022
17. Stephanie Milani, Zhicheng Zhang, Nicholay Topin, Zheyuan Ryan Shi, Charles Kamhoua, Evangelos E. Papalexakis, Fei Fang , *MAVIPER: Learning Decision Tree Policies for Interpretable Multi-Agent Reinforcement Learning*, European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD) 2022
18. Negin Entezari, Evangelos E. Papalexakis, Haixun Wang, Sharath Rao, and Shishir Kumar Prasad, *Tensor-based Complementary Product Recommendation*, IEEE BigData 2021
19. Ekta Gujral, Leonardo Neves, Evangelos E. Papalexakis, Neil Shah, *Niche Detection in User Content Consumption Data*, ACM International Conference on Information and Knowledge Management (CIKM) 2021
20. Alexander Gorovits, Lin Zhang, Ekta Gujral, Evangelos E. Papalexakis, Petko Bogdanov, *Min-*

*ing Bursty Groups from Interaction Data*, ACM International Conference on Information and Knowledge Management (CIKM) 2021

21. William Shiao, Evangelos E. Papalexakis, *Adversarially Generating Rank-Constrained Graphs*, The 8th IEEE International Conference on Data Science and Advanced Analytics (DSAA) 2021
22. Uday Singh Saini, Pravallika Devineni, Evangelos E. Papalexakis, *Subspace Clustering based analysis of Neural Networks*, European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD) 2021
23. Mariam Salloum, Daniel Jeske, Wenxiu Ma, Evangelos E. Papalexakis, Christian Shelton, Vassilis Tsotras, Shuheng Zhou, *Developing an Interdiciplinary Data Science Program*, 2021 SIGCSE Technical Symposium on Computer Science Education.
24. Risul Islam, Md Omar Faruk Rokon, Evangelos E. Papalexakis, Michalis Faloutsos, *Recten: a recursive hierarchical low rank tensor factorization method to discover hierarchical patterns in multi-modal data*, International AAAI Conference on Web and Social Media (ICWSM) 2021, Venice, Italy
25. Sara Abdali, Rutuja Gurav, Siddharth Menon, Daniel Fonseca, Negin Entezari, Neil Shah, Evangelos E. Papalexakis *Identifying Misinformation from Website Screenshots*, International AAAI Conference on Web and Social Media (ICWSM) 2021, Venice, Italy
26. Risul Islam, Md Omar Faruk Rokon, Evangelos E Papalexakis, Michalis Faloutsos, *Tenfor: a tensor-based tool to extract interesting events from security forums*, ASONAM 2020
27. Ekta Gujral, Georgios Theocharous, Evangelos E. Papalexakis, *C3APTION: Constraint Coupled CP and PARAFAC2 Tensor Decomposition*, ASONAM 2020
28. Ravdeep Pasricha, Pravallika Devineni, Evangelos E. Papalexakis, Ramakrishnan Kannan *Tensorized Feature Spaces for Feature Explosion*, International Conference on Pattern Recognition (ICPR) 2020, Milan, Italy
29. Niluthpol Chowdhury Mithun, Ravdeep Pasricha, Evangelos E. Papalexakis, Amit K. Roy-Chowdhury, *Webly Supervised Image-Text Embedding with Noisy Tag Refinement*, International Conference on Pattern Recognition (ICPR) 2020, Milan, Italy
30. Zhenjie Zhao, Evangelos E. Papalexakis, Xiaojuan Ma, *Learning Physical Common Sense as Knowledge Graph Completion via BERT Data Augmentation and Constrained Tucker Factorization*, Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP)
31. Ekta Gujral, Evangelos E. Papalexakis *OnlineBTD: Streaming Algorithms to Track the Block Term Decomposition of Large Tensors* IEEE International Conference on Data Science and Advanced Analytics (DSAA) 2020, Sydney, Australia
32. Sara Abdali, Neil Shah, Evangelos E. Papalexakis *Semi-Supervised Multi-aspect Detection of Misinformation using Hierarchical Joint Decomposition*, Applied Data Science Track, ECML-PKDD 2020, Ghent, Belgium
33. Faruk Rokon, Md Omar, Risul Islam, Ahmad Darki, Evangelos E. Papalexakis, Michalis Faloutsos *SourceFinder: Finding Malware Source-Code from Publicly Available Repositories in GitHub*, International Symposium on Research in Attacks, Intrusions and Defenses (RAID 2020)
34. Ekta Gujral, Georgios Theocharous, Evangelos E. Papalexakis *POPLAR: Parafac2 decOmPosition using auxiLiAry infoRmation* 2020 IEEE 11th Sensor Array and Multichannel Signal Processing Workshop (SAM), Hangzhou, China
35. Joobin Gharibshah, Evangelos E. Papalexakis, Michalis Faloutsos *REST: A thread embedding approach for identifying and classifying user-specified information in security forums*, International AAAI Conference on Web and Social Media (ICWSM) 2020, Atlanta, Georgia, US
36. Bashar Romanous, Mohammadreza Rezvani, Junjie Huang, Daniel Wong, Evangelos E. Papalexakis, Vassilis J Tsotras, Walid Najjar *High-Performance Parallel Radix Sort on FPGA*, 2020 IEEE 28th Annual International Symposium on Field-Programmable Custom Computing Machines (FCCM)
37. Ekta Gujral, Ravdeep Pasricha, Evangelos E. Papalexakis *Beyond Rank-1: Discovering Rich*

*Community Structure in Multi-Aspect Graphs*, The Web Conference 2020, Taipei, Taiwan

38. Yorgos Tsitsikas, Dimitris G Chachlakis, Evangelos E Papalexakis, Panos P Markopoulos, *L1-Norm RESCAL Decomposition*, 54th Asilomar Conference on Signals, Systems, and Computers, 2020
39. Ekta Gujral, Georgios Theocharous, Evangelos E. Papalexakis, *SPADE: Streaming PARAFAC2 DEcomposition for Large Datasets* SIAM SDM 2020, Cincinnati OH
40. Georgios Tsitsikas, Evangelos E. Papalexakis, *NSVD: Normalized Singular Value Deviation Reveals Number of Latent Factors in Tensor Decomposition* SIAM SDM 2020, Cincinnati OH
**Selected as one of the "Best of SDM 2020"**
41. Ehsan Samani, Parviz Khaledian, Armin Aligholian, Evangelos E. Papalexakis, Shawn Cun, Masoud H. Nazari, Hamed Mohsenian-Rad Anomaly Detection in IoT-Based PIR Occupancy Sensors to Improve Building Energy Efficiency 2020 IEEE Innovative Smart Grid Technologies (ISGT), Washington DC
42. Negin Entezari, Saba Al-Sayouri, Amirali Darvishzadeh, Evangelos E. Papalexakis, *All You Need is Low (Rank): Defending Against Adversarial Attacks on Graphs*, 2020 ACM Web Search and Data Mining (WSDM) Conference, Houston TX
43. Ekta Gujral, Ravdeep Pasricha, Tianxiong Yang, Evangelos E. Papalexakis, *OcTen: Online Compression-based Tensor Decomposition* IEEE CAMSAP 2019, Guadeloupe, West Indies
44. Zachary Zimmerman, Nader Shakibay Senobari, Gareth Funning, Evangelos E. Papalexakis, Samet Oymak, Philip Brisk, and Eamonn Keogh *Matrix Profile XVIII: Time Series Mining in the Face of Fast Moving Streams using a Learned Approximate Matrix Profile* IEEE ICDM 2019, Beijing, China
45. Zhenjie Zhao, Andrew Cattle, Evangelos E. Papalexakis, Xiaojuan Ma, *Embedding Lexical Features via Tensor Decomposition for Small Sample Humor Recognition*, 2019 Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP 2019), Hong Kong, China
46. Mike Izbicki, Evangelos E. Papalexakis, Vassilis J. Tsotras, *Geolocating Tweets in any Language at any Location*, ACM CIKM 2019, Beijing, China
47. Dimitris Chachlakis, Yorgos Tsitsikas, Evangelos E. Papalexakis, and Panagiotis P. Markopoulos, *Robust multi-relational learning with absolute projection RESCAL* IEEE Global Conference on Information Processing (IEEE GlobalSIP 2019), Ottawa, Canada, 2019.
48. Mike Izbicki, Evangelos E. Papalexakis, Vassilis J. Tsotras, *Exploiting the Earth's Spherical Geometry to Geolocate Images*, 2019 European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD)
49. Georgios Tsitsikas, Evangelos E. Papalexakis, *The Core Consistency of a Compressed Tensor*, IEEE Data Science Workshop (DSW) 2019, Minneapolis, MN, USA
50. Abdulrahman Fahim, Ajaya Neupane, Evangelos E. Papalexakis, Lance Kaplan, Srikanth V. Krishnamurthy, Tarek Abdelzaher, *Edge-assisted Detection and Summarization of Key Global Events from Distributed Crowd-sensed Data* , 2019 IEEE International Conference on Cloud Engineering (IC2E), Prague, Czech Republic
51. Evangelos E. Papalexakis, Kostas Pelechrinis, *tHoops: A Multi-Aspect Analytical Framework for Spatio-Temporal Basketball Data*, ACM CIKM 2018, Torino, Italy
52. Ardavan Afshar, Ioakeim Perros, Evangelos E. Papalexakis, Elizabeth Searles, Joyce Ho, Jimeng Sun *COPA: Constrained PARAFAC2 for Sparse & Large Datasets* ACM CIKM 2018, Torino, Italy
53. Niluthpol Mithun, Rameswar Panda, Evangelos E. Papalexakis, Amit Roy-Chowdhury, *Webly Supervised Joint Embedding for Cross-Modal Image-Text Retrieval*, ACM Multimedia (ACMM) 2018, Seoul, South Korea
54. Ravdeep Pasricha, Ekta Gujral, Evangelos E. Papalexakis, *Identifying and Alleviating Concept Drift in Streaming Tensor Decomposition*, ECML-PKDD 2018, Dublin, Ireland
55. Md. Lutfor Rahman, Sharmistha Bardhan, Ajaya Neupane, Evangelos E. Papalexakis, Chengyu

Song, *Learning Tensor-based Representations from Brain-Computer Interface Data for Cybersecurity*, ECML-PKDD 2018, Dublin, Ireland

56. Guacho, Gisel Bastidas, Sara Abdali, Neil Shah, Evangelos E. Papalexakis, *Semi-supervised Content-based Detection of Misinformation via Tensor Embeddings*, IEEE/ACM ASONAM 2018, Barcelona, Spain
57. Saba Al-Sayouri, Ekta Gujral, Danai Koutra, Evangelos E. Papalexakis, Sara Lam, *t-PNE: Tensor-based Predictable Node Embeddings*, IEEE/ACM ASONAM 2018, Barcelona, Spain
58. Sanaz Bahargam, Evangelos E. Papalexakis, *Constrained Coupled Matrix-Tensor Factorization and its Application in Pattern and Topic Detection*, IEEE/ACM ASONAM 2018, Barcelona, Spain
59. Pravallika Devineni, Evangelos E. Papalexakis, Kalina Michalska, Michalis Faloutsos, *MIMiS: Minimally Intrusive Mining of Smartphone User Behaviors (poster)*, IEEE/ACM ASONAM 2018, Barcelona, Spain
60. Ioakeim Perros, Evangelos E. Papalexakis, Haesun Park, Richard Vuduc, Xiaowei Yan, Christopher Defilippi, Walter F. Stewart, Jimeng Sun, *SUSTain: Scalable Unsupervised Scoring for Tensors and its Application to Phenotyping*, ACM KDD 2018, London, UK
61. Alexander Gorovits, Ekta Gujral, Evangelos Papalexakis, Petko Bogdanov, *LARC: Learning Activity-Regularized Overlapping Communities Across Time*, ACM KDD 2018, London, UK
62. Sanaz Bahargam, Evangelos E Papalexakis, *Discovering Time-Evolving Topics of Varying Levels of Difficulty via Constrained Coupled Matrix-Tensor Factorization*, International Conference on Computational Social Science 2018 (IC2S2), Evanston, IL
63. Joobin Gharibshah, Evangelos E Papalexakis, Michalis Faloutsos, *RIPEx: Extracting malicious IP addresses from security forums using cross-forum learning* PAKDD 2018, Melbourne, Australia
64. Ekta Gujral, Evangelos Papalexakis, *SMACD: Semi-supervised Multi-Aspect Community Detection*,SIAM SDM 2018, San Diego, CA
65. Ekta Gujral, Ravdeep Pasricha, Evangelos Papalexakis, *SamBaTen: Sampling-based Batch Incremental Tensor Decomposition*, SIAM SDM 2018, San Diego, CA
66. Azeem Aqil, Karim Khalil, Ahmed O.F. Atya, Evangelos E. Papalexakis, Srikanth V. Krishnamurthy, Trent Jaeger, K.K. Ramakrishnan, Paul Yu, Ananthram Swami, *Jaal: Towards Network Intrusion Detection at ISP Scale*, ACM CoNEXT 2017, Seoul, Korea
67. Ishmam Zabir, Evangelos E. Papalexakis, *Balancing Interpretability and Predictive Accuracy for Unsupervised Tensor Mining*, Asilomar Conference on Signals, Systems, and Computers 2017, Asilomar, CA
68. Ioakeim Perros, Evangelos E Papalexakis, Fei Wang, Richard Vuduc, Elizabeth Searles, Michael Thompson, Jimeng Sun, *SPARTan: Scalable PARAFAC2 for Large & Sparse Data*, ACM KDD 2017, Halifax, NS, Canada
69. Pravallika Devineni, Evangelos E Papalexakis, Danai Koutra, A. Seza Dogruoz, Michalis Faloutsos, *One Size Does not Fit All: Profiling Personalized Time-Evolving User Behaviors*, IEEE/ACM ASONAM 2017, Sydney, NSW, Australia.
70. Tai Ching Li, Joobin Gharibshah, Evangelos E Papalexakis, Michalis Faloutsos, *TrollSpot: Detecting misbehavior in commenting platforms*, IEEE/ACM ASONAM 2017, Sydney, NSW, Australia.
71. Joobin Gharibshah, Tai Ching Li, Maria Solanas Vanrell, Evangelos E. Papalexakis, Andre Castro, Konstantinos Pelechrinis, Michalis Faloutsos, *InferIP: Extracting actionable information*, IEEE/ACM ASONAM 2017, Sydney, NSW, Australia.
72. Xiao Fu, Kejun Huang, Otilia Stretcu, Hyun Ah Song, Evangelos E. Papalexakis, Partha Talukdar, Tom Mitchell, Nicholas Sidiropoulo, Christos Faloutsos, Barnabas Poczos, *BrainZoom: High Resolution Reconstruction from Multi-modal Brain Signals*, SIAM SDM 2017, Houston, TX
73. Ashkan Sadeghi-Mobarakeh, Mahdi Kohansal, Evangelos E Papalexakis, Hamed Mohsenian-Rad, *Data Mining based on Random Forest Model to Predict the California ISO Day-ahead Market Prices*, IEEE ISGT (Innovative Smart Grid Technologies Conference) 2017, Washington DC
74. Jinoh Oh, Kijung Shin, Evangelos E Papalexakis, Christos Faloutsos, Hwanjo Yu, *S-HOT:*

*Scalable High-Order Tucker Decomposition*, ACM WSDM 2017, Cambridge, UK

75. Xiao Fu, Kejun Huang, Evangelos E Papalexakis, Hyun-Ah Song, Partha Pratim Talukdar, Nicholas D Sidiropoulos, Christos Faloutsos, Tom Mitchell, *Efficient and distributed algorithms for large-scale generalized canonical correlations analysis*, IEEE ICDM 2016, Barcelona, Spain
76. Evangelos E. Papalexakis, *Automatic Unsupervised Tensor Mining with Quality Assessment*, SIAM SDM 2016, Miami
    **Best Student Paper Award**
77. Bryan Hooi, Hyun-Ah Song, Evangelos E. Papalexakis, Rakesh Agrawal, Christos Faloutsos, *Matrices, Compression, Learning Curves: formulation, and the GroupNTeach algorithms*, PAKDD 2016, Auckland, New Zealand
78. Evangelos E. Papalexakis, Konstantinos Pelechrinis, Christos Faloutsos, *Location Based Social Network Analysis Using Tensors and Signal Processing Tools*, IEEE CAMSAP 2015, Cancun, Mexico
79. Matt Gardner, Kejun Huang, Evangelos E. Papalexakis, Xiao Fu, Partha Pratim Talukdar, Christos Faloutsos, Nicholas D.Sidiropoulos, Tom Mitchell, *Translation Invariant Word Embeddings* EMNLP 2015, Lisbon, Portugal
80. Rakesh Agrawal, Behzad Golshan, Evangelos E. Papalexakis, *Whither Social Networks for Web Search?* ACM SIGKDD 2015, Industry Track, Sydney, Australia, NSW *[authors in alphabetical order]*
81. Rakesh Agrawal, Behzad Golshan, Evangelos E. Papalexakis, *A study of distinctiveness in web results of two search engines*, WWW 2015 Web Science Track, Florence, Italy *[authors in alphabetical order]*
    **Selected as one of the best papers of WWW 2015, Web Science Track**
82. Kejun Huang, Nicholas D. Sidiropoulos, Christos Faloutsos, Evangelos E. Papalexakis, Partha Pratim Talukdar, Tom Mitchell, *Principled Neuro-Functional Connectivity Discovery*, SIAM SDM 2015, Vancouver, Canada
83. Inah Jeon, Evangelos E. Papalexakis, U Kang, Christos Faloutsos, *HaTen2: Billion-scale Tensor Decompositions*, IEEE ICDE 2015, Seoul, Korea
84. Evangelos E. Papalexakis, Christos Faloutsos, *Fast Efficient and Scalable Core Consistency Diagnostic for the PARAFAC Decomposition for Big Sparse Tensors*, IEEE ICASSP 2015, Brisbane, Australia
85. Evangelos E. Papalexakis, Alona Fyshe, Nicholas Sidiropoulos,Partha Pratim Talukdar, Tom Mitchell,Christos Faloutsos, *Good-Enough Brain Model: Challenges, Algorithms and Discoveries in Multi-Subject Experiments*, ACM SIGKDD 2014, New York City, USA
86. Ching-Hao Mao, Chung-Jung Wu, Kuo-Chen Lee, Evangelos E. Papalexakis, Christos Faloutsos, *MalSpot: Multi$^2$ Malicious Network Behavior Patterns Analysis*, PAKDD 2014, Tainan, Taiwan
87. Miguel Araujo, Spiros Papadimitriou, Stephan Günnemann, Christos Faloutsos, Prithwish Basu, Ananthram Swami, Evangelos E. Papalexakis, Danai Koutra, *Com2: Fast Automatic Discovery of Temporal (Comet) Communities*, PAKDD 2014, Tainan, Taiwan
    **Best student paper award (runner up)**
88. Spiros Papadimitriou, Evangelos E. Papalexakis, *Towards laws of the 3d-printable design web*, 2014 ACM conference on Web science (WebSci)
    **Best lightning talk award**
89. Nicholas Sidiropoulos, Evangelos E. Papalexakis, Christos Faloutsos, *A Parallel Algorithm for Big Tensor Decomposition Using Randomly Compressed Cubes (PARACOMP)*, ICASSP 2014, Florence, Italy
90. Evangelos E. Papalexakis, Tom Mitchell, Nicholas Sidiropoulos, Christos Faloutsos, Partha Pratim Talukdar, Brian Murphy, *Turbo-SMT: Accelerating Coupled Sparse Matrix-Tensor Factorizations by 200x*, SDM 2014, Philadelphia, PA, USA
    **Selected as one of the best papers of SDM 2014**
91. Alex Beutel, Abhimanu Kumar, Evangelos E. Papalexakis, Partha Pratim Talukdar, Christos Faloutsos, Eric Xing, *FlexiFact: Scalable Flexible Factorization of Coupled Tensors on Hadoop* SDM

2014, Philadelphia, PA, USA

92. Evangelos E. Papalexakis, Konstantinos Pelechrinis, Christos Faloutsos, *Spotting Misbehaviors in Location-based Social Networks using Tensors*, WWW 2014 Web Science Track (poster), Seoul, Korea
93. Ariel Fuxman, Ashok Chandra, Pradeep Chilakamarri, Michael Gamon, Bernhard Kohlmeir, Yuanhua Lv, Dhyanesh Narayanan, Patrick Pantel, Evangelos E. Papalexakis, Bo Zhao, *Contextual Insights*, WWW 2014 (Poster Track), Seoul, Korea
94. Evangelos E. Papalexakis, Tudor Dumitras, Duen Horng (Polo) Chau, B. Aditya Prakash, Christos Faloutsos, *Spatio-temporal Mining of Software Adoption & Penetration*, ASONAM 2013, Niagara Falls, Canada, August 2013
**Selected as one of the best papers of ASONAM 2013**
95. Evangelos E. Papalexakis, Leman Akoglu, Dino Ienco, *Do more Views of a Graph help? Community Detection and Clustering in Multi-Graphs*, Fusion 2013, Istanbul, Turkey
96. Misael Mongiovi, Petko Bogdanov, Razvan Ranca, Ambuj K. Singh, Evangelos E. Papalexakis, Christos Faloutsos, *NetSpot: Spotting Significant Anomalous Regions on Dynamic Networks*, SDM 2013, Austin, Texas, May 2013
97. Yasuko Matsubara, Lei Li, Evangelos E. Papalexakis, David Lo, Yasushi Sakurai, Christos Faloutsos, *F-Trail: Finding Patterns in Taxi Trajectories*, PAKDD 2013, Gold Coast, Queensland, Australia, April 2013
98. Danai Koutra, Evangelos E. Papalexakis, Christos Faloutsos, *TensorSplat: Spotting Latent Anomalies in Time*, PCI (16th Panhellenic Conference on Informatics with international participation), Piraeus, Greece, Oct. 2012
99. Evangelos E. Papalexakis, Christos Faloutsos, Nicholas D. Sidiropoulos, *ParCube: Sparse Parallelizable Tensor Decompositions*, European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases 2012 (ECML-PKDD), Bristol, United Kingdom.
100. Evangelos E. Papalexakis, Alex Beutel, Peter Steenkiste, *Network Anomaly Detection using Co-clustering*, IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining ASONAM 2012, Istanbul, Turkey
101. U Kang, Evangelos E. Papalexakis, Abhay Harpale, Christos Faloutsos, *GigaTensor: Scaling Tensor Analysis Up By 100 Times - Algorithms and Discoveries*, ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD) 2012, Beijing, China
102. Evangelos E. Papalexakis, Nicholaos D. Sidiropoulos *Co-clustering as Multilinear Decomposition with Sparse Latent Factors*, IEEE ICASSP 2011, Prague, Czech Republic

## REFEREED JOURNAL PUBLICATIONS

1. William Shiao, Evangelos E. Papalexakis, *Synthetic data for learning-based knowledge discovery* ACM SIGKDD Explorations, June 2024
2. William Shiao, Benjamin A Miller, Kevin Chan, Paul Yu, Tina Eliassi-Rad, Evangelos E. Papalexakis, *TenGAN: adversarially generating multiplex tensor graphs*, Springer Data Mining and Knowledge Discovery 2023 (ECML-PKDD 2023 Journal Track)
3. Abdulrahman Fahim, Evangelos E. Papalexakis, Srikanth V Krishnamurthy, Amit K. Roy Chowdhury, Lance Kaplan, Tarek Abdelzaher, *AcTrak: Controlling a Steerable Surveillance Camera using Reinforcement Learning*, ACM Transactions on Cyber-Physical Systems 2023
4. Ravdeep S Pasricha, Ekta Gujral, Evangelos E Papalexakis, *Adaptive granularity in tensors: A quest for interpretable structure*, Frontiers in Big Data 2022
5. Ryan Rivas, Sudipta Paul, Vagelis Hristidis, Evangelos E. Papalexakis, Amit K Roy-Chowdhury *Task-agnostic representation learning of multimodal twitter data for downstream applications*, Journal of Big Data 2022
6. Abdulrahman Fahim, Ajaya Neupane, Evangelos E. Papalexakis, Lance Kaplan, Srikanth V Krishnamurthy, Tarek Abdelzaher *BigEye: Detection and Summarization of Key Global Events from Distributed Crowd-sensed Data*, IEEE Internet of Things Journal 2022

7. Saba Al-Sayouri, Ekta Gujral, Danai Koutra, Evangelos E. Papalexakis, Sarah S Lam *t-pine: Tensor-based predictable and interpretable node embeddings*, Springer, Social Network Analysis and Mining, 2020
8. Hwanjo Yu, Jiyuan Zhang, Jinoh Oh, Kijung Shin, Evangelos E. Papalexakis, Christos Faloutsos *Fast and memory-efficient algorithms for high-order Tucker decomposition*, Springer Knowledge and Information Systems, 2020
9. Saba A Al-Sayouri, Danai Koutra, Evangelos E. Papalexakis, Sarah S Lam *SURREAL: Subgraph Robust Representation Learning*, Springer Applied Network Science, 2019
10. Ioakeim Perros, Evangelos E. Papalexakis, Richard Vuduc, Elizabeth Searles, Jimeng Sun *Temporal phenotyping of medically complex children via PARAFAC2 tensor factorization*, Journal of biomedical informatics, 2019
11. Panagiotis P. Markopoulos, Dimitrios G. Chachlakis, Evangelos E. Papalexakis, *The exact solution to rank-1 L1-norm TUCKER2 decomposition*, IEEE Signal Processing Letters, 2018
12. Nicholas D Sidiropoulos, Lieven De Lathauwer, Xiao Fu, Kejun Huang, Evangelos E Papalexakis, Christos Faloutsos, *Tensor decomposition for signal processing and machine learning*, IEEE Transactions on Signal Processing, 2017
13. Rakesh Agrawal, Behzad Golshan, Evangelos E Papalexakis, *Homogeneity in web search results: Diagnosis and mitigation*, ACM Transactions on Intelligent Systems and Technology (TIST), 2017
14. Konstantinos Pelechrinis, Evangelos E. Papalexakis, *The anatomy of American football: evidence from 7 years of NFL game data*, PLoS one, 2016
15. Evangelos E Papalexakis, Christos Faloutsos, Nicholas D Sidiropoulos, *Tensors for data mining and data fusion: Models, applications, and scalable algorithms*, ACM Transactions on Intelligent Systems and Technology (TIST) 2016
16. Rakesh Agrawal, Behzad Golshan, Evangelos E. Papalexakis, *Toward Data-Driven Design of Educational Courses: A Feasibility Study*, JEDM-Journal of Educational Data Mining 2016
17. Inah Jeon, Evangelos E Papalexakis, Christos Faloutsos, Lee Sael, U Kang, *Mining billion-scale tensors: algorithms and discoveries*, The VLDB Journal, 2016
18. Evangelos E. Papalexakis, Tom Mitchell, Nicholas Sidiropoulos, Christos Faloutsos, Partha Pratim Talukdar, Brian Murphy, *Turbo-SMT: Parallel Coupled Sparse Matrix-Tensor Factorizations and Applications*, Statistical Analysis and Data Mining (Best of SDM 2014 Special Issue Pt. 2)
19. Rakesh Agrawal, Behzad Golshan, Evangelos E. Papalexakis, *Overlap in the Web Search Results of Google and Bing* , The Journal of Web Science (invited as one of the best papers of WWW'15 Web Science Track)
20. Evangelos E. Papalexakis, Bryan Hooi, Konstantinos Pelechrinis, Christos Faloutsos, *Power-Hop: A Pervasive Observation for Real Complex Networks*, PLoS ONE 11(3)
21. Evangelos E. Papalexakis, Christos Faloutsos, Nicholaos D. Sidiropoulos, *ParCube: Sparse Parallelizable CANDECOMP-PARAFAC Tensor Decomposition*, ACM Transactions on Knowledge Discovery from Data, 2015
22. Evangelos E. Papalexakis, Tudor Dumitras, Duen Horng (Polo) Chau, B. Aditya Prakash, Christos Faloutsos, *SharkFin: Spatio-temporal Mining of Software Adoption & Penetration*, Social Network Analysis and Mining (SNAM), Springer, December 2014
23. Evangelos E. Papalexakis, Alona Fyshe, Nicholas Sidiropoulos, Partha Pratim Talukdar, Tom Mitchell, Christos Faloutsos, *Good-Enough Brain Model: Challenges, Algorithms and Discoveries in Multi-Subject Experiments*, Big Data Journal, December 2014
24. Evrim Acar, Evangelos E. Papalexakis, Gozde Gurdeniz, M. Rasmussen, A. J. Lawaetz, M. Nilsson, Rasmus Bro, *Structure-Revealing Data Fusion*, BMC Bioinformatics, 2014
25. Nicholaos D. Sidiropoulos, Evangelos E. Papalexakis, Christos Faloutsos, *PArallel RAndomly COMPressed Cubes (PARACOMP): A Scalable Distributed Architecture for Big Tensor Decomposition*, IEEE Signal Processing Magazine, Special Issue on Signal Processing for Big Data, 2014
26. Evangelos E. Papalexakis, Nicholaos D. Sidiropoulos, Rasmus Bro, *From K-means to higher-way co-clustering: Multilinear Decomposition with Sparse Latent Factors*, IEEE Transactions on Signal

Processing, January 2012

27. U Kang, Brendan Meeder, Evangelos E. Papalexakis, Christos Faloutsos, *HEigen: Spectral Analysis for Billion-Scale Graphs*, IEEE Transactions on Knowledge and Data Engineering, November 2011
28. Rasmus Bro, Evangelos E. Papalexakis, Evrim Acar, Nicholaos D. Sidiropoulos *Coclustering - a useful tool for Chemometrics*, Journal of Chemometrics, 2012.

## BOOK CHAPTERS

1. Barry C Barish, Jonathan Richardson, Evangelos E Papalexakis, Rutuja Gurav, *Machine Learning for Complex Instrument Design and Optimization*, Artificial Intelligence for Science: A Deep Learning Revolution, 2023
2. Sara Abdali, Gisel B. Guacho, Neil Shah, Evangelos E. Papalexakis, *Tensor Embeddings for Content-based Misinformation Detection with Limited Supervision*, Disinformation, Misinformation and Fake News in Social Media, Springer 2020.
3. Evangelos E. Papalexakis, Alex Beutel, Peter Steenkiste, *Network Anomaly Detection using Co-clustering*, in Springer Encyclopedia of Social Network Analysis and Mining, 2014.

## DEMOS

1. Georgios Tsitsikas, Evangelos E. Papalexakis, *Multi-Graph Explorer: A framework for Advanced Multi-Graph Analysis and Method Development*, ACM CIKM 2024 Demo Track

## SELECTED REFEREED WORKSHOP PUBLICATIONS

1. Jordan Steinhauser, Evangelos E. Papalexakis, Edward Korzus, *Understanding Fear and Beyond in Neuronal Networks with Tensor and Graph Methods: An Interdisciplinary End-to-End Data Science Approach*, Mining and Learning from Time Series Workshop in conjunction with ACM SIGKDD 2024.
2. Yu Fu, Wen Xiao, Jia Chen, Jiachen Li, Evangelos E. Papalexakis, Aichi Chien, Yue Dong, *Cross-Task Defense: Instruction-Tuning LLMs for Content Safety*, TrustNLP: Fourth Workshop on Trustworthy Natural Language Processing, Mexico City, Mexico, June 2024.
3. Rutuja Gurav, Het Patel, Zhuocheng Shang, Ahmed Eldawy, Jia Chen, Elia Scudiero, Evangelos E. Papalexakis, *Can SAM recognize crops? Quantifying the zero-shot performance of a semantic segmentation foundation model on generating crop-type maps using satellite imagery for precision agriculture*, NeurIPS 2023 Workshop AI4Science
4. Rutuja Gurav, Evangelos E. Papalexakis, Barry C. Barish, Jonathan Richardson, Gabriele Vajente, *Identifying Witnesses to Noise Transients in Ground-based Gravitational-wave Observations using Auxiliary Channels with Matrix and Tensor Factorization Techniques*, NeurIPS 2022 Workshop AI4Science
5. Derek Xu, William Shiao, Jia Chen, Evangelos E. Papalexakis, *SV-Learn: Learning Matrix Singular Values with Neural Networks*, The 2022 Workshop on Optimization Based Techniques for Emerging Data Mining Problems At IEEE ICDM 2022
6. Mariana Duarte, Evangelos E. Papalexakis, Jia Chen, *Graph-Assisted Tensor Disaggregation*, KDD 2022 workshop 17th International Workshop on Mining and Learning with Graphs (MLG), August 2022
7. William Shiao, Benjamin A Miller, Kevin Chan, Paul Yu, Tina Eliassi-Rad, Evangelos E. Papalexakis *Adversarial Generation of Multi-View Tensor Graphs: A Preliminary Model and Encouraging Results*, Machine Learning on Graphs (MLoG) Workshop at WSDM 2022
8. Maryam Shahcheraghi, Trevor Cappon, Samet Oymak, Evangelos E. Papalexakis, Eamonn Keogh, Zachary Zimmerman, Philip Brisk *Matrix Profile Index Approximation for Streaming Time Series*, Appeared as part of the 6th Workshop on Real-time Stream Analytics, Stream Mining, CER/CEP & Stream Data Management in Big Data: and published in the proceedings of 2021 IEEE International Conference on Big Data (Big Data)

9. Md Imrul Kaish, Md Jakir Hossain, Evangelos Papalexakis, Jia Chen. *COVID-19 or Flu? Discriminative Knowledge Discovery of COVID-19 Symptoms from Google Trends Data*, epiDAMIK 4.0: The 4th International workshop on Epidemiology meets Data Mining and Knowledge discovery held in conjuction with ACM SIGKDD 2021.
10. Sara Abdali., M. Alex O. Vasilescu, Evangelos E. Papalexakis,*Deepfake Representation with Multilinear Regression* MIS2-KDD 2021 : The Second International MIS2 Workshop: Misinformation and Misbehavior Mining on the Web-2021
11. William Shiao, Evangelos E. Papalexakis, *$KI^2TE$: Knowledge-Infused InterpreTable Embeddings for COVID-19 Misinformation Detection*, 1st International Workshop on Knowledge Graphs for Online Discourse Analysis (KnOD 2021) at The Web Conference 2021
12. Jia Chen, Evangelos E. Papalexakis, *Ensemble Node Embeddings using Tensor Decomposition: A Case-Study on DeepWalk*, 1st Workshop on Multi-Source Data Mining at ICDM 2020
13. Rutuja Gurav, Barry Barish, Gabriele Vajente, Evangelos E. Papalexakis, *Unsupervised matrix and tensor factorization for LIGO glitch identification using auxiliary channels*, AAAI 2020 Fall Symposium on Physics-Guided AI to Accelerate Scientific Discovery
14. Ravdeep Pasricha, Ekta Gujral, Evangelos E. Papalexakis *Adaptive Granularity in Time Evolving Graphs as Tensors*, Mining and Learning with Graphs (MLG) workshop at ACM KDD 2020. San Diego, CA
15. William Shiao, Evangelos E. Papalexakis *BRGAN: Generating Graphs of Bounded Rank*, Machine Learning with Graphs (MLG) workshop at ACM KDD 2020. San Diego, CA
16. Rutuja Gurav, Barry C. Barish , Evangelos E. Papalexakis *Multilinear factorized representations for LIGO glitches in label-scarce settings*, ACM KDD 2019 FEED Workshop, Anchorage, Alaska
17. Uday Singh Saini, Evangelos E. Papalexakis, Characterizing & Exploring Deep CNN Representations Using Factorization, NeurIPS 2018 Workshop on Integrating Deep Learning Theories, Montreal, Canada
18. Uday Singh Saini, Evangelos E. Papalexakis, A Peek Into the Hidden Layers of a Convolutional Neural Network Through a Factorization Lens, ACM KDD 2018 Deep Learning Day, London, UK
19. Gisel Bastidas Guacho, Sara Abdali, Evangelos Papalexakis, *Semi-supervised Content-based Fake News Detection using Tensor Embeddings and Label Propagation*, SoCal NLP Symposium 2018, Irvine CA
20. Ekta Gujral, Evangelos Papalexakis, *SMACD: Semi-supervised Multi-Aspect Community Detection*, WSDM 2018 Heteronam: International Workshop on Heterogeneous Networks Analysis and Mining
21. Seyedmehdi Hosseinimotlagh, Evangelos Papalexakis, *Unsupervised Content-Based Identification of Fake News Articles with Tensor Decomposition Ensembles*, WSDM 2018 MIS2: Misinformation and Misbehavior Mining on the Web Workshop
    **Best Paper Award**
22. Tai-Ching Li, Joobin Gharibshah, Evangelos E Papalexakis, Michalis Faloutsos, *Detecting misbehavior in commenting platforms*, WSDM 2018 MIS2: Misinformation and Misbehavior Mining on the Web Workshop
23. Ioakeim Perros, Evangelos Papalexakis, Elizabeth Searles, Woosang Lim, Haesun Park, Jimeng Sun, *Unsupervised Phenotype Scoring*, NeurIPS 2017 ML4H: Machine Learning for Health Workshop, Long Beach, CA
24. Liuqing Yang, Evangelos E. Papalexakis, *Exploration of Social and Web Image Search Results Using Tensor Decomposition*, CVPR Workshop on Tensor Methods for Computer Vision 2017, Honolulu, Hawaii
25. Evangelos E. Papalexakis, A. Seza Doğruöz, *Understanding Multilingual Social Networks in Online Immigrant Communities*, at the Multilingual Web Access (MWA) Workshop at WWW 2015, Florence, Italy
26. Evangelos E. Papalexakis, Dong Nguyen, Seza Doğruöz, *Predicting Code-switching in Multilin-*

*gual Communication for Immigrant Communities*, at the Workshop on Computational Approaches to Code Switching at EMNLP 2014, Doha, Qatar

27. Evangelos E. Papalexakis, Nicholaos D. Sidiropoulos, Minos Garofalakis *Reviewer Profiling Using Sparse Matrix Regression*, IEEE OEDM 2010 Workshop, held in conjuction with ICDM 2010, Sydney, Australia
28. Nicholaos D. Sidiropoulos, Evangelos E. Papalexakis, *Three-way Co-clustering*, SIAM workshop on Tensor Decompositions and Applications (TDA 2010), Monopoli, Bari, Italy, 13-17 September 2010

## ACADEMIC ACTIVITIES

### FUNDING SUPPORT

1. Sub-award Co-PI, "CISE MSI: RPEP: CPS: Trustworthy AI for Transportation Cyber-Physical Systems," National Science Foundation, Total: $1.2M, No. 2431569, UCR portion $300,000, Years 2025-2027.
2. PI for award from UC National Laboratories (UCNL) to organize and implement the 2024 Data Science Challenge, $52,572.20
3. Unrestricted gift from Snap Inc., 2023 ($10,000)
4. Co-PI for subaward from The University of Texas Rio Grande Valley for award "The US DOT University Transportation Center for Railway Safety, Smart Technologies for Safer Railways," U.S. Department of Transportation, $10,000,000 (UCR portion: $750K including $250K cost share), (with Constantine Tarawneh, Mohsen Amjadian, Arturo Fuentes, Mustapha Rahmaninezhad,, Heinrich Foltz, Angela Chapman, Dimitris Rizos, David Allen, Aemal Khattak, Jia Chen), Years 2023-2028.
5. Senior Personnel for award "Greater LA Data Science Pathways (GLADS-PATH)", The California Education Learning Lab, $1,275,000, with Mariam Salloum (PI), Analisa Flores, Vassilis Tsotras, Shuheng Zhou, Cecilia Cheung, Wei Vivian Li, Jun Li, Neftali Watkinson Medina, Evangelos Papalexakis, Bruce Babcock, Kevin Esterling, Paea LePendu, Jia Chen (Co-PI), John Korah, Lan Yang, Tingting Chen, Yunfei Hou, Ronald Salloum, Hani Aldirawi, Jeremy Aikin, Qingquan Sun, Jamal Ashraf, Kasey Nguyen, Mark Lehr, Laurie McQuay-Peninger, Caroline Hutchings, Tracy Kocher, Years 2023-2027.
6. Senior Personnel for National Science Foundation award "REU Site: Experience the Full Data Science Pipeline through Research and Practice," National Science Foundation, No. 2244480, $389,922, (with Jia Chen (PI), Yingzhuo Joyce Fu, Mariam Salloum, Paea LePendu, Xinping Cui, Analisa M Flores, Wenxiu Ma, Wei Vivian Li, Weixin Yao, and Vassilis Tsotras) Years 2023-2026.
7. Cisco Research Faculty Award: "Deep Knowledge-Infused Interpretable Embeddings for Misinformation Detection", $41,000 as an unrestricted gift.
8. PI for award from UC National Laboratories (UCNL) to organize and implement the 2023 Data Science Challenge, $71,000
9. PI for subaward from Lawrence Livermore National Laboratory (LLNL) to organize and implement the 2022 Data Science Challenge, $40,000
10. PI for subaward from Lawrence Livermore National Laboratory (LLNL) to organize and implement the 2021 Data Science Challenge, $31,100
11. Subaward Co-PI for NSF CREST award 2112650: "CREST - Center for Multidisciplinary Research Excellence in Cyber-Physical Infrastructure Systems (MECIS)", $459,000 to UCR ($5 Million in total) for 5 years (2021 – 2026)
12. Co-PI for NSF award 2141072: EAGER: ADAPT: Understanding Nonlinear Noise in LIGO: A Machine Learning Approach (with Jon Richardson), $300,000 for 2 years (2021 – 2023)
13. Co-PI for NSF CNS award 2106982: Collaborative Research: CNS: Medium: Scalable Learning from Distributed Data for Wireless Network Management (with Srikanth Krishnamurthy, Vyas

Sekar, Zaoxing Liu, and Vladimir Braverman), $400,000 to UCR ($1 Million in total) for 4 years (2021 - 2025)

14. PI for NSF CAREER award 2046086: CAREER: Autonomous Tensor Analysis: From Raw Multi-Aspect Data to Actionable Insights, $600,000 for 5 years (2021 - 2026)
15. U.S. Army Combat Capabilities Development Command Army Research Laboratory, under Cooperative Agreement Number W911NF-13-2-0045 (ARL Cyber Security CRA), PI in two tasks for BPP4, $250,000 for 2 years (2020 – 2022).
16. Co-PI for NIFA-AFRI Sustainable Agricultural Systems (SAS) (Grant Number: 2020-69012-31914). *Artificial Intelligence for Sustainable Water, Nutrient, Salinity, And Pest Management in The Western U.S.*, $10 Million for 5 years (2020 - 2024)
17. UCR Regents Faculty Development Award 2020 ($4,000)
18. Co-PI for NSF 1901379 III: Medium: Efficient Collaborative Perception over Controllable Agent Networks, $1.2 Million for 4 years (2019 – 2023)
19. UCR Regents Faculty Fellowship 2019 ($3,500)
20. Unrestricted gift from Adobe Inc., 2019 ($10,000)
21. Unrestricted gift from Snap Inc., 2018 ($10,000)
22. Unrestricted gift from Snap Inc., 2018 ($7,000)
23. PI for NSF CDS&E OAC-1808591: Theoretical Foundations and Algorithms for L1-Norm-Based Reliable Multi-Modal Data Analysis (collaborative grant with Rochester Institute of Technology), $175,263 for 3 years (2018 - 2021)
24. PI in a UCR-China Collaboration Grant 2018-2019 funded by the UCR Bourns College of Engineering ($35,000).
25. Received 2 NVIDIA GPU Grants (donation of GPUs worth each $1,200) in 2017–2018
26. UCR Academic Senate Omnibus Travel Award, 2017–2018 ($1,000) and 2018-2019 ($950)
27. Co-PI for a Technological Pathways Initiative grant titled *Advancing Diversity in Computing through the Undergraduate Program in Data Science*, $13,656 as unrestricted gift to the PI ($400,000 in total).
28. Adobe Data Science Faculty Research Award 2017, $50,000 as unrestricted gift.
29. Co-PI for NSF EAGER 1746031 *Joint Modeling and Querying of Social Media and Video Data*, $200,000 for 1 year (with Vagelis Hristidis, Vassilis Tsotras, Amit Roy-Chowdhury), (2017–2018)
30. PI for Naval Engineering Educational Consortium (NEEC) Grant N00174-17-1-0005 *Big Multi-Aspect Data Mining via Scalable and Incremental Tensor Decompositions and Applications to Social Network Analysis*, $259,000 for 3 years (2017–2020).

## ACADEMIC SERVICE

- **Conference organization**: General Co-Chair for SIAM SDM 2025, Conference Co-Chair for IEEE DSAA 2024, General Co-Chair for SIAM SDM 2024, Student Consortium Co-Chair for TheWebConference 2024, Local Co-Chair for KDD 2023 (co-organized the Southern California Data Science Day at KDD), Open Project Forum chair for IEEE ICDM 2022, Tutorial co-chair for IEEE DSAA 2022, Program Committee co-chair for SIAM SDM 2022, Publicity co-chair for KDD 2022, Demo co-chair for ACM WSDM 2022, Special session organizer for IEEE DSAA 2021 on "Tensor Analytics for Emerging Applications", Workshop co-chair for IEEE BIgData 2021, Doctoral forum co-chair for SIAM SDM 2021, Publicity co-chair for PAKDD 2020, Publicity co-chair for KDD 2020, Co-chair of the Deep Learning Day at ACM SIGKDD 2019, Co-organized a KDD19 workshop on "Tensor Methods for Emerging Data Science Challenges", Co-organized a symposium on "Tensors for Signal Processing and Machine Learning" at IEEE GlobalSIP 2018 – 2019, Publicity Chair for IEEE ICDM 2017, Proceedings Chair for IEEE ICDE 2018, Publicity co-chair for SIAM SDM 2019.
- **Editorial work**: Editor-in-Chief for Elsevier Big Data Research, Action Editor for Springer Data Mining and Knowledge Discovery (Springer DAMI), Associate Editor for ACM Transactions on Intelligent Systems and Technology (TIST), Chief Guest Editor for Frontiers Article Collection

on "Tensor Methods for Deep Learning"

- **Journal reviewing**: Journal of Machine Learning Research (JMLR), ECML/PKDD 2014 Journal Track, Springer Data Mining & Knowledge Discovery (DAMI), Springer ESNAM Encyclopedia, IEEE Transactions on Knowledge & Data Engineering (TKDE), IEEE Transactions on Signal Processing (TSP), IEEE Selected Topics on Signal Processing, IEEE Signal Processing Letters, Elsevier Neurocomputing, Journal of Chemomerics, The Journal of Web Science.
- **Program committees**: ACM KDD 2017–2020, ICML 2019, CIKM 2014 – 2016, IEEE ICDM 2020, IEEE/ACM ASONAM 2016–2018, IEEE DSAA 2016 and 2018, SIAM SDM 2017 – 2021, WWW (TheWebConference) 2018–2021, Senior PC Member for CIKM 2017–2019, 2021, Senior PC Member for IEEE DSAA 2019, AAAI 2019, NeurIPS 2019, ACM WSDM 2019-2020, Senior PC Member for IJCAI 2020 – 2021, Senior PC Member for ACM KDD 2021-2024
- **Grant proposal reviewing**: Panelist for various NSF core proposals, NIH ASPIRE Challenge 2019, external reviewer for the Croucher Foundation (Hong Kong), external reviewer for Deutsche Forschungsgemeinschaft (DFG), listed as an expert proposal reviewer for ELIDEK (Greek research funding agency).

## BROADENING PARTICIPATION & OUTREACH

- Co-organized and co-delivered with Prof. Jia Chen a Summer Academy in Artificial Intelligence and Data Science for high school students of local school districts, supported by the Bourns College of Engineering at UCR, July 2024
- Co-organized and co-delivered with Prof. Jia Chen a Summer Academy in Artificial Intelligence for Redlands Unified School District (RUSD) students in collaboration with Deepika Srivastava from RUSD, July 2023
- Co-organized the *Data Science Challenge* with Lawrence Livermore National Laboratory (LLNL) for 4 consecutive years (2021-2024). The goal is to expose students to data science practice, by forming teams of undergraduate students led by graduate students, in order to tackle a problem defined by LLNL scientists. More information: `https://data-science.llnl.gov/dsc`.
- Gave a lecture on *Data science and machine learning in the real world* at the eSTEM Virtual Expo organized by Eastvale STEM Academy (Remotely) in March 2021 (hosted by Kelly Sanchez).

## TEACHING EXPERIENCE

I have been routinely teaching *CS235 Data Mining Techniques* and *CS171 Introduction to Machine Learning and Data Mining. In Spring 2017 I also taught a seminar course* CS260 Data Mining Using Tensor Methods.

## STUDENT MENTORING/ADVISING

**PhD – current**

1. Ms. Rutuja Gurav, *CSE PhD Student*
2. Ms. Dawon Anh, *CSE PhD student*
3. Mr. Miguel Gutierrez, *CSE PhD student*
4. Ms. Yunshu Wu, *CSE PhD student (co-advised with Greg ver Steeg)*
5. Ms. Taghreed Alanazi, *CSE PhD student (co-advised with Srikanth Krishnamurthy)*
6. Mr. Het Patel, *CSE PhD student (co-advised with Jia Chen)*
7. Mr. Yiran Luo, *CSE PhD student*
8. Mr. Chansong Lim, *incoming CSE PhD student*
9. Mr. Kishore Bhaumik, *incoming CSE PhD student (co-advised with Jia Chen)*
10. Ms. Sowmya Kadali, *incoming CSE PhD student*

**Visiting Scholars – current**

1. Mr. Nicolas Roque dos Santos, *USP - Universidade de São Paulo PhD Student*

**MS – current**

1. Ms. Angelika Bermudez, *CSE BS/MS student*

**Undergraduate – current**

1. Ms. Chloe Au, *CSE BS student*
2. Mr. Paimon Goulart, *CSE BS student*
3. Mr. Jerry Li, *CSE BS student*
4. Mr. Attila Koksal, *CSE BS student*
5. Mr. Shaan Pakala, *DS BS student*
6. Mr. Bryce Graw, *San Diego Mesa College student*
7. Ms. Tam Dinh, *Cal Poly Pomona student*
8. Mr. Sid Kannan, *UCSB Computing & Physics BS student*
9. Ms. Teresa Garza, *UTRGV CS BS student*
10. Mr. Mario Camarena, *UTRGV CS BS student*
11. Mr. Oziel Sauceda, *UTRGV CS BS student*

**High School students – current**

1. Mr. Raymond Jiang

**Postdoc – past**

1. Dr. Mike Izbicki, *CSE Postdoc (co-mentored with Vassilis Tsotras)*

**PhD – past (advised/co-advised)**

1. Mr. William Shiao, *CSE PhD student*
2. Mr. Georgios Tsitsikas, *CSE PhD student*
3. Mr. Uday Singh Saini, *CSE PhD student*
4. Mr. Ravdeep Pasricha, *CSE PhD student*
5. Ms. Ghazal Mazaheri, *CSE PhD student (co-advised with Amit Roy-Chowdhury)*
6. Dr. Negin Entezari, *CSE PhD Student*
7. Dr. Sara Abdali, *CSE PhD student*
8. Dr. Ekta Gujral, *CSE PhD student*
9. Dr. Pravallika Devineni, *CSE PhD student (co-advised with Michalis Faloutsos )*

**PhD – past (mentored for short research projects)**

1. Mr. Ishmam Zabir, *ECE PhD student*
2. Mr. Seyedmehdi Hosseinimotlagh, *CSE PhD student*
3. Ms. Mariana Duarte, *CSE PhD student*
4. Ms. Biqian Cheng, *CSE PhD student*

**MS – past**

1. Mr. Jie Lin, *CEN MS student*
2. Mr. Zhizhi Wang, *CSE MS student*
3. Mr. Yuanhao Chang, *CSE MS student*
4. Ms. Yeqing Wang, *CSE MS student*
5. Ms. ChiaTien Tsai, *CSE MS student*
6. Ms. Prajnya Prabhu, *CSE MS student*
7. Mr. William Shiao, *CSE BS/MS student*
8. Mr. Baixi Sun, *CSE MS student*
9. Mr. William Vagharfard, *CSE MS student*
10. Ms. Gisel Bastidas-Guacho, *CSE MS student*
11. Ms Yi-Ling (Felice) Lin, *CSE MS student*
12. Ms. Liuqing Yang, *CSE MS student*
13. Mr. Robert Colvin, *CSE MS student*
14. Mr. Tianxiong Yang, *CSE MS student*
15. Mr. Jiahuan Liu, *CSE MS student*
16. Ms. Lalitha Dwarapudi , *CEN MS student*
17. Ms. Chaoyun Ma, *CSE MS student*
18. Ms. Sharmistha Bardhan, *CSE MS student*
19. Mr. Lufei Xie, *CSE MS student*
20. Mr. Wei Chen, *CSE MS student*
21. Mr. Gautham Mani, *CSE MS student*
22. Ms. Kamalika Poddar, *CEN MS student*
23. Ms. Krishna Kalbi, *CSE MS student*
24. Mr. Lin Cong, *CSE MS student*
25. Mr. Zubair Qazi, *CSE BS/MS student*

**Undergraduate – past**

1. Mr. Siddharth Menon, *CSE BS student*
2. Mr. Daniel Fonseca, *CSE BS student*
3. Ms. Gabrielle John, *CSE BS student*
4. Mr. Amr Elsisy, *CSE BS/MS student*
5. Mr. Ye (Ted) Zhang, *CSE BS student (GPP)*
6. Mr. Mario Salazar, *CSE BS student*
7. Mr. Het Trivedi, *CSE BS student*
8. Ms. Najmeh Mohammadi Arani, *CSE BS student*
9. Ms. Kennedy Lincoln, *Environmental Engineering BS student*
10. Mr. Zubair Qazi, *CSE BS student*
11. Ms. Lauren Flemmer, *Statistics BS student*
12. Mr. Severin Field, *Physics BS student*
13. Ms. Ingrid Morales, *Computational Math BS student*
14. Mr. Luis Barriuan, *MIT Physics BS student*
15. Ms. Ann-Marina Miyaguchi, *CSE BS student*
16. Mr. Alan Urteaga, *UTRGV Mech. Eng. BS student*
17. Mr. Leonel Ramirez, *UTRGV, Civil Eng. BS student*
18. Mr. Ethan Villalobos, *UTRGV CS BS student*
19. Mr. Hector Lugo, *UTRGV CS BS student*
20. Mr. Pablo Santos, *UTRGV CS BS student*
21. Mr. Damian Gomez, *UTRGV CS BS student*
22. Mr. Michael Chen, *University of Massachusetts Amherst CS BS student*
23. Ms. Angelina Chen, *Emory University CS BS student*
24. Mr. Isaac Kelly, *University of Dallas Physics BS student*

**High School students – past**

1. Mr. Yannis Tsotras
2. Mr. Derek Xu
3. Mr. Varun Srivastava
4. Ms. Maya Kademani

### TUTORIALS

1. Athlytics: Winning in Sports with Data, *with Konstantinos Pelechrinis. ACM WSDM 2018, Marina Del Rey, CA.*
2. Athlytics: Data Mining and Machine Learning for Sports Analytics, *with Ben Alamar and Konstantinos Pelechrinis. ACM SIGKDD 2017, Halifax, Nova Scotia, Canada.*
3. Tensors for Signal Processing and Machine Learning *at IEEE ICASSP 2017 in New Orleans, LA, USA, with Nikos Sidiropoulos, Xiao Fu, and Lieven De Lathauwer.*
4. Factoring Tensors in the Cloud: A Tutorial on Big Tensor Data Analytics *at IEEE ICASSP 2014 in Florence, Italy, with Nikos Sidiropoulos.*
5. Big Arctic Data: A tutorial on Big Data, *Arctic Analysis 2014, Ilulissat, Greenland. This conference was organized by Prof. Rasmus Bro, bringing researchers from Chemometrics, Food Sciences, and Computer Science together.*

## INVITED & KEYNOTE TALKS

1. Generating Low Rank Graphs, *Invited Talk at GraphEx (Graph Exploitation) Symposium, organized by MIT Lincoln Lab, Dedham, MA, July 2024*
2. Low-rank Approximation and Robustness, *Keynote Talk at TrustLOG @ WWW'24 workshop May 2024, co-located with The Web Conference 2024*
3. It's all about the latent structure: Tensor and graph methods for actionable insights, *Warner Bros Discovery AI/ML Tech Talk Series, March 2024 (hosted by Puja Das)*
4. The Four Elements of Tensor Graph Mining and Learning, *UC Merced Applied Math Seminar, October 2023 (hosted by Symeon Papadimitropoulos)*
5. Low-rank Approximation and Robustness, *ACM SIGKDD 2023 Southern California Data Science Day, August 2023*

6. Multi-Aspect Data Science @ UCR, *High School Computer Science Program, Computer Science Youth of America (CSYA), June 2023 (hosted by David Chung)*
7. The Four Elements of Tensor Graph Mining and Learning, *LIPADE - Université Paris Cite, June 2023 (hosted by Themis Palpanas)*
8. The Four Elements of Tensor Graph Mining and Learning, *University of Nevada - Las Vegas, Google ExploreCSR workshop, May 2023 (hosted by Beiyu Lin)*
9. TenAlign: Joint Tensor Alignment and Coupled Factorization*, January 2023, Webinar (hosted by Rasmus Bro)*
10. ICDM 2022 Tao Li Award Presentation*, ICDM 2022, November 2022*
11. The Four Elements of Tensor Graph Mining and Learning*, Machine Learning on Graphs Workshop at ICDM 2022, November 2022*
12. Tensor Decompositions for Actionable Insights*, Carnegie Mellon University, August 2022 (hosted by Fei Fang)*
13. Tensor Decompositions for Actionable Insights*, CISCO Research, June 2022 (hosted by Jayanth Srinivasa & Ali Payani)*
14. Tensor Decompositions for Actionable Insights*, Megagon Labs, March 2022 (hosted by Estevam Hruschka)*
15. Tensor Decompositions for Multi-aspect Graph Analytics And Beyond*, Machine Learning Seminar, Vanderbilt University, February 2022 (hosted by Soheil Kolouri)*
16. Tensor Decompositions for Textual Insights*, Invited talk at the WIT: Workshop On Deriving Insights From User-Generated Text at KDD2021, August 2021*
17. Tensor Decompositions for Multi-aspect Graph Analytics And Beyond*, Northeastern University, NetSI Machine Learning with Graphs Seminar (Remotely), January 2021 (hosted by Tina Eliassi-Rad)*
18. Tensor Decompositions for Understanding Noise in the LIGO Gravitational Wave Detectors*, AAAI 2020 Fall Symposium on Physics-Guided AI to Accelerate Scientific Discovery, Invited Talk (Remotely), November 2020*
19. Tensor Decompositions for Multi-aspect Graph Analytics And Beyond*, One World Signal Processing Seminar Series 2020 (Remotely), November 2020*
20. Tensor Decompositions for Graph Mining, Gravitational Wave Detection, and Adversarial Machine Learning*, Rochester Institute of Technology (Remotely), September 2020 (hosted by Panos Markopoulos)*
21. Tensor Decompositions for Unsupervised Mining of Rich Multi-Aspect Data*, Instacart (Remotely), September 2020 (hosted by Haixun Wang)*
22. Tensor Decompositions for Graph Mining, Gravitational Wave Detection, and Adversarial Machine Learning*, ECE TUC Virtual Summer School on Data Analysis, Technical University of Crete, August 2020 (hosted by Athanasios Liavas)*
23. Tensor Decompositions for Big Multi-aspect Data with Applications to Social Graph Analytics, Misinformation on the Web, and Explainable AI*, Microsoft Bing Ads, Bay Area, CA, March 2020 (hosted by Rukmini Iyer)*
24. *UC Congressional Briefing: the Promise of Artificial Intelligence Research, Washington DC, December 2019; Nominated by UC Riverside campus to represent the campus at this UC briefing.*
25. Tensor Decompositions for Multi-aspect Graph Analytics And Beyond*, keynote talk at GTA3 workshop on Graph techniques for adversarial analytics (at IEEE Big Data) Los Angeles, CA, December 2019*
26. Tensor Decompositions for Big Multi-aspect Data*, Shanghai Tech, Shanghai, China, September 2019 (hosted by Kewei Tu)*
27. Tensor Decompositions for Big Multi-aspect Data*, Fudan University, Shanghai, China, September 2019 (hosted by Zhongyu Wei)*
28. Tensor Decompositions for Big Multi-aspect Data*, Shanghai Jiao Tong University, Shanghai, China, September 2019 (hosted by Liqing Zhang)*
29. Tensor Decompositions for Big Multi-aspect Data *ByteDance Shanghai, China, September 2019 (hosted by Lei Li)*
30. Tensor Decompositions for Big Multi-aspect Data*, East China Normal University, Shanghai, China, September 2019 (hosted by Fang Zhou)*
31. *Invited talk at* AI and Tensor Factorizations for Physical, Chemical, and Biological Systems*, Santa Fe, NM, September 2019*
32. Tensor Decompositions for Big Multi-aspect Data with Applications to Social Graph Analytics,

Misinformation on the Web, and Explainable AI *Facebook HQ Core Data Science Seminar, Menlo Park, CA, September 2019 (hosted by Aude Hofleitner)*

33. Tensor Decompositions for Big Multi-aspect Data with Applications to Social Graph Analytics, Misinformation on the Web, and Explainable AI *Adobe HQ, San Jose, CA, September 2019 (hosted by Georgios Theocharous)*
34. Tensor Decompositions for Multi-aspect Graph Analytics and Beyond, *keynote talk at 15th International Workshop on Mining and Learning with Graphs (MLG) in conjunction with KDD 2019, Anchorage, AK August 2019*
35. Tensor Decompositions for Big Multi-aspect Data With Applications to Misinformation on the Web and Social Graph Analytics, *invited talk at Georgia Tech, Atlanta, GA, February 2019 (hosted by Jimeng Sun)*
36. Tensor Decompositions for Big Multi-aspect Data With Applications to Misinformation on the Web and Social Graph Analytics, *invited talk at Amazon, Seattle, WA, February 2019 (hosted by Estevam Hruschka)*
37. Tensor Decompositions for Big Multi-aspect Data With Applications to Misinformation on the Web and Social Graph Analytics, *invited talk at Hong Kong University of Science and Technology, Hong Kong, China, January 2019 (hosted by Yangqiu Song)*
38. Tensor Decompositions for Big Multi-aspect Data With Applications to Misinformation on the Web and Social Graph Analytics, *invited talk at City-brain Project, Hangzhou, China, January 2019 (hosted by Zhenhui (Jessie) Li)*
39. Tensor Decompositions for Big Multi-aspect Data With Applications to Misinformation on the Web and Social Graph Analytics, *invited talk at Alibaba, Hangzhou, China, January 2019 (hosted by Hongbo Deng)*
40. Tensor Decompositions for Big Multi-aspect Data With Applications to Misinformation on the Web and Social Graph Analytics, *invited talk at University of Electronics Science and Technology, Chengdu, China, January 2019 (hosted by Xi-Le Zhao)*
41. Tensor Decompositions for Big Multi-aspect Data With Applications to Misinformation on the Web and Social Graph Analytics, *invited talk at Microsoft Research Asia, Beijing, China, January 2019 (hosted by Xing Xie)*
42. Tensor Decompositions for Big Multi-aspect Data With Applications to Misinformation on the Web and Social Graph Analytics, *invited talk at Beijing Jiao Tong University, Beijing, China, January 2019 (hosted by Liping Jing)*
43. Tensor Decompositions for Big Multi-aspect Data With Applications to Misinformation on the Web and Social Graph Analytics, *invited talk at ByteDance, Beijing, China, January 2019 (hosted by Lei Li)*
44. Tensor Decompositions for Big Multi-aspect Data With Applications to Misinformation on the Web and Social Graph Analytics, *invited talk at Chinese Academy of Sciences, Beijing, China, January 2019 (hosted by Ping Luo)*
45. Tensor Decompositions for Big Multi-aspect Data With Applications to Misinformation on the Web and Social Graph Analytics, *invited talk at Tsinghua University, Beijing, China, January 2019 (hosted by Peng Cui)*
46. Tensor Decompositions for Big Multi-aspect Data With Applications to Misinformation on the Web and Social Graph Analytics, *invited talk at Imperial College London, London, UK, November 2018 (hosted by Maja Pantic)*
47. Tensor Decompositions for Big Multi-aspect Data with Applications to Misinformation on the Web and Social Graph Analytics, *invited talk at NVIDIA HQ, Santa Clara, CA, October 2018 (hosted by Anima Anandkumar)*
48. Tensor Decompositions for Big Multi-aspect Data With Applications to Misinformation on the Web and Social Graph Analytics, *invited talk at Facebook HQ, Menlo Park, CA September 2018*
49. Tensor Decompositions for Big Multi-aspect Data Analytics, *invited colloquium talk at Harvey Mudd*
50. Tensor Decompositions for Big Multi-aspect Data Analytics, *invited talk at TRICAP 2018, June 2018, Angel Fire, NM*
51. Tensor Decompositions for Big Multi-aspect Data Analytics, *invited talk at SIAM Applied Linear Algebra Conference, Constrained Low-Rank Matrix and Tensor Approximations Symposium, Hong Kong, May 2018*
52. Tensor Decompositions for Big Multi-aspect Data Analytics, *UC Irvince, March 2018 (hosted by*

*Sameer Singh)*

53. Tensor Decompositions for Big Multi-aspect Data Analytics, *UCLA, March 2018 (hosted by Alex Vasilescu)*
54. Tensor Decompositions for Big Multi-aspect Data Analytics, *Caltech, February 2018 (hosted by Yisong Yue)*
55. Tensor Decompositions for Big Multi-aspect Data Analytics, *University of Nevada at Reno, February 2018 (hosted by Kostas Alexis)*
56. Tensor Decompositions for Big Multi-aspect Data Analytics, *University of Southern California / ISI, February 2018 (hosted by Emilio Ferrara)*
57. Data Science: Extracting Big Data Knowledge from the Cloud, *Naval Surface Warfare Center Corona, CA, January 2018 (hosted by Taylor Cole)*
58. Tensor Decompositions for Big Multi-aspect Data Analytics, *University of Pireaus, Greece, January 2018 (hosted by Eleftherios Kofidis)*
59. Tensor Decompositions for Big Multi-aspect Data Analytics, *keynote talk at ICDM 2017 Workshop on Data science for human performance in social networks, November 2017*
60. Tensor Decompositions for Big Multi-aspect Data Analytics, *keynote talk at ICCV 2017 Workshop on Matrix and Tensor Factorization Methods for Computer Vision Workshop, October 2017*
61. Tensor Decompositions for Big Multi-aspect Data Analytics, *Second Workshop of Mission Critical Big Data Analytics, May 2017, Prairie-View A&M University (hosted by Lijun Qian).*
62. Tensor Decompositions for Big Multi-aspect Data Analytics, *NeurIPS'16 Tensor-Learn Workshop, December 2016, Barcelona, Spain*
63. Big Signal Processing for Multi-Aspect Data Science , *Northeastern University, March 2016, (hosted by Tina Eliassi-Rad).*
64. Big Signal Processing for Multi-Aspect Data Science , *Texas A&M University, March 2016, (hosted by James Caverlee).*
65. Big Signal Processing for Multi-Aspect Data Science , *University of California Riverside, March 2016, (hosted by Eamonn Keogh).*
66. Big Signal Processing for Multi-Aspect Data Science , *University of Illinois at Chicago, February 2016, (hosted by Brian Ziebart).*
67. Big Signal Processing for Multi-Aspect Data Science , *NYU Stern School of Business, February 2016, (hosted by Arun Sundarajan).*
68. Big Signal Processing for Multi-Aspect Data Science , *University of Notre Dame, February 2016, (hosted by Nitesh Chawla).*
69. Mining Large Multi-Aspect Data: Algorithms and Applications, *Facebook HQ, Menlo Park, November 2015 (hosted by Sofus Macskassy).*
70. Mining Large Multi-Aspect Data: Algorithms and Applications, *Rutgers University, NJ, October 2015 (hosted by Tina Eliassi-Rad).*
71. Mining Large Multi-Aspect Data: Algorithms and Applications, *Microsoft Research Asia, Beijing, China, August 2015 (hosted by Yu Zheng).*
72. Mining Large Multi-Aspect Data: Algorithms and Applications, *Chinese Academy of Sciences, Beijing, China, August 2015 (hosted by Ping Luo).*
73. Mining Large Multi-Aspect Data: Algorithms and Applications, *Tsinghua University, Beijing, China, August 2015 (hosted by Peng Cui).*
74. Overlap Between Google and Bing Web Search Results! Twitter to the Rescue?, *COSN'15 PC Workshop, Stanford University, CA (hosted by Rakesh Agrawal).*
75. Efficient and Effective Brain Activity Mining and Modeling, *Singapore Management University, Singapore, April 2015 (hosted by David Lo).*
76. Mining Large Multi-Aspect Data: Algorithms and Applications, *Beyond the Horizon Workshop, University of Bristol, UK, November 2014.*
77. Efficient and Effective Brain Activity Mining and Modeling, *Carnegie Mellon University Qatar, Doha, Qatar, October 2014 (hosted by Mohammad Hammoud).*
78. Big Arctic Data: A tutorial on Big Data, *Arctic Analysis 2014, Ilulissat, Greenland, March 2014.*
79. Scaling Up Tensor Decompositions with MapReduce, *SIAM Conference on Parallel Processing (PP), Portland, OR, Feb. 19, 2014.*
80. Data Mining using Coupled Matrix Tensor Factorization, *SIAM Conference on Computational Science and Engineering (CSE), Boston, MA, Feb. 25- March 1, 2013 (Minisymposium Speaker).*