

EVANGELOS E. PAPALEXAKIS

University of California Riverside
Computer Science & Engineering Department
355 Winston Chung Hall
900 University Ave.
Riverside, CA 92521, USA

Email: epapalex@cs.ucr.edu
www: www.cs.ucr.edu/~epapalex
Last Update: March 21, 2019

POSITIONS

- **University of California Riverside**, Riverside, CA (August 2016 - present)
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

- Best Paper Award at the MIS2: Misinformation & Misbehavior Mining on the Web Workshop at WSDM 2018
- SIGKDD 2017 Doctoral Dissertation Award (runner-up).
- Selected among the "20 rising stars" of the KDD community for 2016 by Microsoft Research Asia and Microsoft Academic Search.
- Best Student Paper Award at SIAM SDM 2016.
- Travel Award for the SIAM SDM 2016 Conference.
- Finalist for the Facebook PhD Fellowship 2015.
- Finalist for the Microsoft Research PhD Fellowship 2014 (29 out of 181 applications).
- Best student paper award (runner-up) at PAKDD 2014.

- Papers selected as “best of the conference” for ASONAM 2013, SDM 2014, WWW 2015 Web Science Track.
- Travel Award for the 2014 SIAM Conference on Parallel Processing for Scientific Computing (PP14).
- Performance Fellowship by the Technical University of Crete for the academic years 2005-2006, 2006-2007, 2007-2008 & 2008-2009 (top 10% of class).

PUBLICATIONS

No. citations: **1922**

H-index: **22**

(<http://scholar.google.com/citations?user=2P1kinAAAAAJ&hl=en>, March 21, 2019)

REFEREED CONFERENCE PUBLICATIONS

1. Evangelos E. Papalexakis, Kostas Pelechrinis, tHoops: A Multi-Aspect Analytical Framework for Spatio-Temporal Basketball Data, ACM CIKM 2018, Torino, Italy
2. 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
3. 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
4. Ravdeep Pasricha, Ekta Gujral, Evangelos E. Papalexakis, *Identifying and Alleviating Concept Drift in Streaming Tensor Decomposition*, ECML-PKDD 2018, Dublin, Ireland
5. Md. Lutfur 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
6. 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
7. 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
8. Sanaz Bahargam, Evangelos E. Papalexakis, *Constrained Coupled Matrix-Tensor Factorization and its Application in Pattern and Topic Detection*, IEEE/ACM ASONAM 2018, Barcelona, Spain
9. Pravallika Devineni, Evangelos E. Papalexakis, Kalina Michalska, Michalis Faloutsos, *MIMiS: Minimally Intrusive Mining of Smartphone User Behaviors (poster)*, IEEE/ACM ASONAM 2018, Barcelona, Spain
10. 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
11. 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
12. Alexander Gorovits, Ekta Gujral, Evangelos Papalexakis, Petko Bogdanov, *LARC: Learning Activity-Regularized Overlapping Communities Across Time*, ACM KDD 2018, London, UK
13. 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
14. Joobin Gharibshah, Evangelos E Papalexakis, Michalis Faloutsos, *RIPEX: Extracting malicious IP addresses from security forums using cross-forum learning* PAKDD 2018, Melbourne, Australia
15. Ekta Gujral, Evangelos Papalexakis, *SMACD: Semi-supervised Multi-Aspect Community Detection*, SIAM SDM 2018, San Diego, CA

16. Ekta Gujral, Ravdeep Pasricha, Evangelos Papalexakis, *SamBaTen: Sampling-based Batch Incremental Tensor Decomposition*, SIAM SDM 2018, San Diego, CA
17. 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
18. Ishmam Zabir, Evangelos E. Papalexakis, *Balancing Interpretability and Predictive Accuracy for Unsupervised Tensor Mining*, Asilomar Conference on Signals, Systems, and Computers 2017, Asilomar, CA
19. 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
20. 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.
21. Tai Ching Li, Joobin Gharibshah, Evangelos E Papalexakis, Michalis Faloutsos, *TrollSpot: Detecting misbehavior in commenting platforms*, IEEE/ACM ASONAM 2017, Sydney, NSW, Australia.
22. 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.
23. Xiao Fu, Kejun Huang, Otilia Stretcu, Hyun Ah Song, Evangelos E. Papalexakis, Partha Talukdar, Tom Mitchell, Nicholas Sidiropoulos, Christos Faloutsos, Barnabas Poczos, *BrainZoom: High Resolution Reconstruction from Multi-modal Brain Signals*, SIAM SDM 2017, Houston, TX
24. 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
25. Jinoh Oh, Kijung Shin, Evangelos E Papalexakis, Christos Faloutsos, Hwanjo Yu, *S-HOT: Scalable High-Order Tucker Decomposition*, ACM WSDM 2017, Cambridge, UK
26. 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
27. Evangelos E. Papalexakis, *Automatic Unsupervised Tensor Mining with Quality Assessment*, SIAM SDM 2016, Miami
Best Student Paper Award
28. 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
29. Evangelos E. Papalexakis, Konstantinos Pelechrinis, Christos Faloutsos, *Location Based Social Network Analysis Using Tensors and Signal Processing Tools*, IEEE CAMSAP 2015, Cancun, Mexico
30. 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
31. 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]
32. 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
33. 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
34. Inah Jeon, Evangelos E. Papalexakis, U Kang, Christos Faloutsos, *HaTen2: Billion-scale Tensor Decompositions*, IEEE ICDE 2015, Seoul, Korea
 35. 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
 36. 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
 37. Ching-Hao Mao, Chung-Jung Wu, Kuo-Chen Lee, Evangelos E. Papalexakis, Christos Faloutsos, *MalSpot: Multi² Malicious Network Behavior Patterns Analysis*, PAKDD 2014, Tainan, Taiwan
 38. 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)
 39. Spiros Papadimitriou, Evangelos E. Papalexakis, *Towards laws of the 3d-printable design web*, 2014 ACM conference on Web science (WebSci)
Best lightning talk award
 40. Nicholas Sidiropoulos, Evangelos E. Papalexakis, Christos Faloutsos, *A Parallel Algorithm for Big Tensor Decomposition Using Randomly Compressed Cubes (PARACOMP)*, ICASSP 2014, Florence, Italy
 41. 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
 42. 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
 43. Evangelos E. Papalexakis, Konstantinos Pelechrinis, Christos Faloutsos, *Spotting Misbehaviors in Location-based Social Networks using Tensors*, WWW 2014 Web Science Track (poster), Seoul, Korea
 44. 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
 45. 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
 46. 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
 47. 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
 48. 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
 49. 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
 50. 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.
51. 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
 52. 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
 53. Evangelos E. Papalexakis, Nicholas D. Sidiropoulos *Co-clustering as Multilinear Decomposition with Sparse Latent Factors*, IEEE ICASSP 2011, Prague, Czech Republic

REFEREED JOURNAL PUBLICATIONS

1. Panagiotis P. Markopoulos, Dimitrios G. Chachlakis, Evangelos E. Papalexakis, *The exact solution to rank-1 L1-norm TUCKER2 decomposition*, IEEE Signal Processing Letters, 2018
2. 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
3. Konstantinos Pelechrinis, Evangelos E. Papalexakis, *The anatomy of American football: evidence from 7 years of NFL game data*, PLoS one, 2016
4. 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
5. Rakesh Agrawal, Behzad Golshan, Evangelos E. Papalexakis, *Toward Data-Driven Design of Educational Courses: A Feasibility Study*, JEDM-Journal of Educational Data Mining 2016
6. Inah Jeon, Evangelos E Papalexakis, Christos Faloutsos, Lee Sael, U Kang, *Mining billion-scale tensors: algorithms and discoveries*, The VLDB Journal, 2016
7. 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)
8. 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)
9. Evangelos E. Papalexakis, Bryan Hooi, Konstantinos Pelechrinis, Christos Faloutsos, *PowerHop: A Pervasive Observation for Real Complex Networks*, PLoS ONE 11(3)
10. Evangelos E. Papalexakis, Christos Faloutsos, Nicholas D. Sidiropoulos, *ParCube: Sparse Parallelizable CANDECOMP-PARAFAC Tensor Decomposition*, ACM Transactions on Knowledge Discovery from Data, 2015
11. 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
12. 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
13. Evrim Acar, Evangelos E. Papalexakis, Gozde Gurdeniz, M. Rasmussen, A. J. Lawaetz, M. Nilsson, Rasmus Bro, *Structure-Revealing Data Fusion*, BMC Bioinformatics, 2014
14. Nicholas 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
15. Evangelos E. Papalexakis, Nicholas 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
16. 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

17. Rasmus Bro, Evangelos E. Papalexakis, Evrim Acar, Nicholas D. Sidiropoulos *Coclustering - a useful tool for Chemometrics*, Journal of Chemometrics, 2012.

BOOK CHAPTERS

1. Evangelos E. Papalexakis, Alex Beutel, Peter Steenkiste, *Network Anomaly Detection using Co-clustering*, in Springer Encyclopedia of Social Network Analysis and Mining, 2014.

REFEREED WORKSHOP PUBLICATIONS

1. 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
2. Ekta Gujral, Evangelos Papalexakis, *SMACD: Semi-supervised Multi-Aspect Community Detection*, WSDM 2018 Heteronam: International Workshop on Heterogeneous Networks Analysis and Mining
3. 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
4. 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
5. Ioakeim Perros, Evangelos Papalexakis, Elizabeth Searles, Woosang Lim, Haesun Park, Jimeng Sun, *Unsupervised Phenotype Scoring*, NIPS 2017 ML4H: Machine Learning for Health Workshop, Long Beach, CA
6. 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
7. 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
8. Evangelos E. Papalexakis, Dong Nguyen, Seza Doğruöz, *Predicting Code-switching in Multilingual Communication for Immigrant Communities*, at the Workshop on Computational Approaches to Code Switching at EMNLP 2014, Doha, Qatar
9. Evangelos E. Papalexakis, Nicholas D. Sidiropoulos, Minos Garofalakis *Reviewer Profiling Using Sparse Matrix Regression*, IEEE OEDM 2010 Workshop, held in conjunction with ICDM 2010, Sydney, Australia
10. Nicholas 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

Research Funding

At UC Riverside:

- Unrestricted gift from Adobe Inc., 2019 (\$10,000)
- Unrestricted gift from Snap Inc., 2018 (\$10,000)
- Unrestricted gift from Snap Inc., 2018 (\$7,000)
- 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)

- PI in a UCR-China Collaboration Grant 2018-2019 funded by the UCR Bourns College of Engineering (\$35,000).
- Received 2 NVIDIA GPU Grants (donation of GPUs worth each \$1,200) in 2017–2018
- UCR Academic Senate Omnibus Travel Award, 2017–2018 (\$1,000) and 2018-2019 (\$950)
- 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, part of which used to fund an LSOE position at the department).
- Adobe Data Science Research Award 2017, \$50,000 as unrestricted gift.
- 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)
- 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).

Service/Reviewing

- **Program committees:** ACM KDD 2017–2019, ICML 2019, CIKM 2014 – 2016, IEEE/ACM ASONAM 2016–2018, IEEE DSAA 2016 and 2018, SIAM SDM 2017 – 2018, WWW (TheWeb-Conference) 2018–2019, Senior PC Member for CIKM 2017–2018, AAAI 2019, ACM WSDM 2019.
- **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 Chemometrics, The Journal of Web Science.
- **Editorial board memberships:** Member of the editorial board and serving as an action editor for Springer Data Mining and Knowledge Discovery.
- **Conference organization:** Co-chair of the Deep Learning Day at ACM SIGKDD 2019, Co-organizing a symposium on “Tensors for Signal Processing and Machine Learning” at IEEE GlobalSIP 2018, Publicity Chair for IEEE ICDM 2017, Proceedings Chair for IEEE ICDE 2018, Publicity co-chair for SIAM SDM 2019.

Press Coverage:

Work on Fake News has been extensively covered by :

- *Science News*: www.sciencenews.org/article/can-computer-programs-flag-fake-news
- *Digital Trends*: www.digitaltrends.com/cool-tech/snapchat-supporting-algorithm-fight-fake-news/
- NVIDIA AI Podcast: blogs.nvidia.com/blog/2018/12/06/fake-news-ai-detect/

Teaching Experience

At UC Riverside

- Instructor for class CS235 *Data Mining Techniques* (Spring 2019)
- Instructor for class CS171 *Introduction to Machine Learning and Data Mining* (Spring 2019)
- Instructor for class CS235 *Data Mining Techniques* (Fall 2018)
- Instructor for class CS171 *Introduction to Machine Learning and Data Mining* (Spring 2018)
- Instructor for class CS235 *Data Mining Techniques* (Spring 2018)
- Instructor for class CS235 *Data Mining Techniques* (Fall 2018)
- Instructor for class CS235 *Data Mining Techniques* (Fall 2017)
- Instructor for class CS260 *Data Mining Using Tensor Methods* (Spring 2017)
- Instructor for class CS235 *Data Mining Techniques* (Fall 2016)

Student Mentoring/Advising

At UC Riverside – current

- Ms. Ekta Gujral, CSE PhD student
- Mr. Ravdeep Pasricha, CSE PhD student
- Mr. Uday Saini, CSE PhD student
- Mr. Yorgos Tsitsikas, CSE PhD student

- Ms. Sara Abdali, CSE PhD student
- Ms. Negin Entezari, CSE PhD Student
- Mr. Gautham Mani, CSE MS student
- Ms. Kamalika Poddar, CEN MS student
- Mr. William Shiao, CSE BS student
- Mr. Mario Salazar, CSE BS student
- Mr. Richard McGee, CSE BS student
- Mr. Het Trivedi, CSE BS student
- Ms. Harini Venkatesan, CSE BS student
- Mr. Ye (Ted) Zhang, CSE BS student (GPP)

At UC Riverside – graduated

- Ms. Pravallika Devineni, CSE PhD student
- Ms. Gisel Bastidas-Guacho, CSE MS student
- Ms. Liuqing Yang, CSE MS student
- Mr. Tianxiong Yang, CSE MS student
- Mr. Jiahuan Liu, CSE MS student
- Ms. Lalitha Dwarapudi, CEN MS student
- Ms. Chaoyun Ma, CSE MS student
- Ms. Sharmistha Bardhan, CSE MS student
- Mr. Lufei Xie, CSE MS student
- Mr. Wei Chen, CSE MS student
- Mr. Amr Elsisy, CSE BS/MS student

Tutorials

- *Tensors for Signal Processing and Machine Learning* at IEEE ICASSP 2017 in New Orleans, LA, USA, with Nikos Sidiropoulos, Xiao Fu, and Lieve De Lathauwer.
- *Factoring Tensors in the Cloud: A Tutorial on Big Tensor Data Analytics* at IEEE ICASSP 2014 in Florence, Italy, with Nikos Sidiropoulos.
- *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 TALKS

1. *Tensor Decompositions for Big Multi-aspect Data Analytics*, invited talk at TRICAP 2018, June 2018, Angel Fire, NM
2. *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
3. *Tensor Decompositions for Big Multi-aspect Data Analytics*, UC Irvine, March 2018 (hosted by Sameer Singh)
4. *Tensor Decompositions for Big Multi-aspect Data Analytics*, UCLA, March 2018 (hosted by Alex Vasilescu)
5. *Tensor Decompositions for Big Multi-aspect Data Analytics*, Caltech, February 2018 (hosted by Yisong Yue)
6. *Tensor Decompositions for Big Multi-aspect Data Analytics*, University of Nevada at Reno, February 2018 (hosted by Kostas Alexis)
7. *Tensor Decompositions for Big Multi-aspect Data Analytics*, University of Southern California / ISI, February 2018 (hosted by Emilio Ferrara)
8. *Data Science: Extracting Big Data Knowledge from the Cloud*, Naval Surface Warfare Center Corona, CA, January 2018 (hosted by Taylor Cole)
9. *Tensor Decompositions for Big Multi-aspect Data Analytics*, University of Pireaus, Greece, January 2018 (hosted by Eleftherios Kofidis)
10. *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
11. *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

12. *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).
13. *Tensor Decompositions for Big Multi-aspect Data Analytics*, NIPS'16 Tensor-Learn Workshop, December 2016, Barcelona, Spain
14. *Big Signal Processing for Multi-Aspect Data Science*, Northeastern University, March 2016, (hosted by Tina Eliassi-Rad).
15. *Big Signal Processing for Multi-Aspect Data Science*, Texas A&M University, March 2016, (hosted by James Caverlee).
16. *Big Signal Processing for Multi-Aspect Data Science*, University of California Riverside, March 2016, (hosted by Eamonn Keogh).
17. *Big Signal Processing for Multi-Aspect Data Science*, University of Illinois at Chicago, February 2016, (hosted by Brian Ziebart).
18. *Big Signal Processing for Multi-Aspect Data Science*, NYU Stern School of Business, February 2016, (hosted by Arun Sundarajan).
19. *Big Signal Processing for Multi-Aspect Data Science*, University of Notre Dame, February 2016, (hosted by Nitesh Chawla).
20. *Mining Large Multi-Aspect Data: Algorithms and Applications*, Facebook HQ, Menlo Park, November 2015 (hosted by Sofus Macskassy).
21. *Mining Large Multi-Aspect Data: Algorithms and Applications*, Rutgers University, NJ, October 2015 (hosted by Tina Eliassi-Rad).
22. *Mining Large Multi-Aspect Data: Algorithms and Applications*, Microsoft Research Asia, Beijing, China, August 2015 (hosted by Yu Zheng).
23. *Mining Large Multi-Aspect Data: Algorithms and Applications*, Chinese Academy of Sciences, Beijing, China, August 2015 (hosted by Ping Luo).
24. *Mining Large Multi-Aspect Data: Algorithms and Applications*, Tsinghua University, Beijing, China, August 2015 (hosted by Peng Cui).
25. *Overlap Between Google and Bing Web Search Results! Twitter to the Rescue?*, COSN'15 PC Workshop, Stanford University, CA (hosted by Rakesh Agrawal).
26. *Efficient and Effective Brain Activity Mining and Modeling*, Singapore Management University, Singapore, April 2015 (hosted by David Lo).
27. *Mining Large Multi-Aspect Data: Algorithms and Applications*, Beyond the Horizon Workshop, University of Bristol, UK, November 2014.
28. *Efficient and Effective Brain Activity Mining and Modeling*, Carnegie Mellon University Qatar, Doha, Qatar, October 2014 (hosted by Mohammad Hammoud).
29. *Big Arctic Data: A tutorial on Big Data*, Arctic Analysis 2014, Ilulissat, Greenland, March 2014.
30. *Scaling Up Tensor Decompositions with MapReduce*, SIAM Conference on Parallel Processing (PP), Portland, OR, Feb. 19, 2014.
31. *Data Mining using Coupled Matrix Tensor Factorization*, SIAM Conference on Computational Science and Engineering (CSE), Boston, MA, Feb. 25- March 1, 2013 (Minisymposium Speaker).