

CURRICULUM VITAE

PERSONAL INFORMATION

Name: Evimaria Terzi

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Google Scholar Page: <http://scholar.google.com/citations?user=j6KFCRAAAAAAJ&hl=en&oi=ao>

EDUCATION HISTORY

Ph.D. Computer Science, University of Helsinki, Finland, January 2007.

Thesis Title: "Problems and Algorithms on Sequence Segmentation"

Dissertation Advisor: Professor Heikki Mannila

MSc. Computer Science, Purdue University, West Lafayette, IN, May 2002.

B.A. Computer Science, Aristotle University of Thessaloniki, Greece, July 2000.

EMPLOYEMENT RECORD

Associate Professor, Department of Computer Science, Boston University, April 2014 - present.

Visiting Professor and Nokia Fellow, Department of Computer Science, Aalto University, Finland, March 2016 - July 2016.

Visiting Researcher, Department of Computer, Control and Management Engineering Antonio Ruberti Sapienza University of Rome, Sept 2015 - December 2015.

Assistant Professor, Department of Computer Science, Boston University, September 2009 - April 2014.

Visiting Researcher, Microsoft Research, Mountain View, CA, June 2013.

Visiting Researcher, Microsoft Research, Mountain View, CA, June 2010 - August 2010.

Research Scientist, IBM Almaden Research Center, San Jose, CA, June 2007 - August 2009.

Postdoctoral Researcher, Helsinki Institute for Information Technology, Helsinki, Finland, January to June 2007.

Research Intern, IBM Almaden Research Center, San Jose, CA, May to December 2005.

Research Intern, Microsoft Research, Mountain View, CA, June to September 2006.

Graduate Student Researcher, Computer Science Dept., University of Helsinki, Finland, September 2002 - December 2006.

Graduate Student Instructor, Computer Science Department, University of Helsinki, Finland, Spring 2005, Spring 2004, Fall 2003.

HONORS AND AWARDS

Nokia Fellowship Nokia Visiting Professor Fellowship for visiting Aalto University, Helsinki, Finland; (7000 euros), 2016.

NSF CAREER Award, 2013.

Rafik B. Hariri Institute Junior Faculty Fellow, 2011-2013.

Microsoft Research Faculty Fellowship, 2010.

IRTF/IETF Applied Networking Research Prize for the IMC 2012 paper “Routing State Distance: A Path-based Metric for Network Analysis”, 2013.

IBM Outstanding Award, for contributions in the Science of Data Privacy, 2008.

Fulbright Scholarship, 2000-2001.

Greek National Institute of Scholarships, Scholarship for academic excellence (1999,2000).

Greek National Institute of Scholarships, Scholarship for succeeding the top score at the Nationwide University Entrance Exams 1996.

GRANTS AWARDED

NSF Award: “ *Team Engineering: Algorithms and Practical Applications*”, PI: Evimaria Terzi, (\$ 500K), 2018-2021.

Hariri Institute Faculty grant: “ *Team Formation: Algorithms and Practical Applications*”, (in collaboration with BU Spark), (\$ 40K), 2018.

Nokia Fellowship Nokia Visiting Professor Fellowship for visiting Aalto University, Helsinki, Finland; (7000 euros), 2016.

NSF Award: “ *SCOPE: Smart-city Cloud-based Open Platform and Ecosystem*”, PI: Azer Bestavros, co-PIs: Christos Cassandras, Lucy Hutyra, Evimaria Terzi, (\$ 850K), 2013-2017.

NSF Award: “*Structural Matrix Completion for Data-Mining Applications*”, PI: Mark Crovella, co-PI: Evimaria Terzi, (\$ 500K), 2014-2017.

NSF CAREER Award: “*On identifying collections with complex objectives*”, PI: Evimaria Terzi, (\$ 500K), 2013-2017.

NSF Award: “*Entity Selection and Ranking in Data-Mining Applications*”, PI: Evimaria Terzi, (\$ 500K), 2012-2015.

NSF Award: “*Managing and Mining Uncertain Graphs*”, PI: George Kollios, co-PI Evimaria Terzi, (\$ 500K), 2013-2016.

Hariri Institute Faculty grant: “*Identifying Experts and Effective Teams of Experts*” (in collaboration with N. Sahoo, School of Management), (\$ 50K), 2012.

ACSC Mass Insight: Prime the Pump Award: “ *A Platform for Data-Intensive Cybersecurity Monitoring*” (in collaboration with G. Miklau and Y. Diao from UMass Amherst), (\$ 75K), 2012.

Google Faculty Research Gift , Principal Investigator (in collaboration with Azer Bestavros), (\$ 38K), 2011.

Yahoo! Faculty Research Gift , Principal Investigator, (\$ 10K), 2011.

Microsoft Faculty Fellowship , Principal Investigator (\$200K), 2010.

NSF Award: “*User-Centric Privacy Control for Collaborative Social Media*”. Principal Investigator, in collaboration with University of Michigan Ann Arbor (\$474K), 2010–2013.

PUBLICATIONS

Refereed Journal Publications

- J1: K. Semertzidis, E. Pitoura, E. Terzi, P. Tsaparas, “*Finding Lasting Dense Subgraphs*”, Data Min. Knowl. Discov. 2019 (to appear).
- J2: A. Matakos, E. Terzi, P. Tsaparas, “*Measuring and moderating opinion polarization in social networks*”, Data Min. Knowl. Discov. 31(5): 1480-1505, 2017.
- J3: E. Galbrun, K. Pelechrinis, E. Terzi, “*Urban navigation beyond shortest route: The case of safe paths*”, Inf. Syst. , 2016.
- J4: , B.Y. Hong, M.V. F. Araujo, L. D. Strausbaugh, E. Terzi, E. Ioannidou, P. I. Diaz, “*Microbiome Profiles in Periodontitis in Relation to Host and Disease Characteristics*”, PLoS ONE, 2015.
- J5: D. Erdos, R. Gemulla, E. Terzi, “*Reconstructing Graphs from Neighborhood Data*”, ACM Transactions on Knowledge Discovery from Data (ACM TKDD), 2014.
- J6: G. Kollios, M. Potamias, E. Terzi, “*Clustering large probabilistic graphs*”, IEEE Transactions on Data and Knowledge Engineering (IEEE TKDE), 2013.
- J7: P. Diaz, B.-Y. Hong, J. Frias-Lopez, A. Dupuy, M. Angeloni, L. Abusleme, E. Terzi, E. Ioannidou, L. Strausbaugh, A. Dongari-Bagtzoglou: “*Transplantation-associated long-term immunosuppression promotes oral colonization by potentially opportunistic pathogens without impacting other members of the salivary bacteriome*”. Clinical Vaccine Immunology, 2013.
- J8: P. I. Diaz, A. K. Dupuy, L. Abusleme, B. Reese, C. Oberfell, L. Choquette, A. Dongari-Bagtzoglou, D. E. Peterson, E. Terzi, L. D. Strausbaugh, “*Using High Throughput Sequencing to Explore the Biodiversity in Oral Bacterial Communities*”, Journal of Molecular Oral Microbiology 2012.
- J9: K. Liu, E. Terzi, “*A Framework for computing the privacy score of users in online social networks*”, ACM Transactions on Knowledge Discovery from Data (ACM TKDD), 2011.
- J10: J. Kiernan, E. Terzi, “*Constructing comprehensive summaries of large event sequences*”, ACM Transactions on Knowledge Discovery from Data (ACM TKDD), 3(4), 2009.
- J11: T. Feder, H. Mannila, E. Terzi, “*Approximating the minimum chain-completion problem*” Information Processing Letters 109(17): 980-985 (2009).
- J12: N. Haiminen, H. Mannila, E. Terzi, “*Determining significance of pairwise co-occurrences of events in bursty sequences*” BMC Bioinformatics 2008, Volume 9, Pages 336.
- J13: A. Kamra, E. Terzi, E. Bertino, “*Detecting anomalous access patterns in relational databases*”, VLDB Journal, 2008.
- J14: N. Haiminen, H. Mannila, E. Terzi, “*Comparing segmentations by applying randomization techniques*”, BMC Bioinformatics 2007, Volume 8, Pages 171.
- J15: E. Terzi, A. Vakali, L. Angelis, “*A simulated annealing approach for multimedia data placement*”, Journal of Systems and Software, Volume 73, Issue 3, November-December 2004, Pages 467-480.
- J16: A. Vakali, E. Terzi, E. Bertino, A. K. Elmagarmid, “*Hierarchical data placement for navigational multimedia applications*”, Data Knowl. Eng. 44(1): 49-80 (2003).
- J17: A. Vakali, E. Terzi, “*Multimedia Data Storage and Representation Issues on Tertiary Storage Subsystems: An Overview*”, Operating Systems Review 35(2): 61-77 (2001)

Refereed Conference Publications

- C1 A. Anagnostopoulos, C. Castillo, A. Fazzino, S. Leonardi, E. Terzi, “*Algorithms for Hiring and Outsourcing in the Online Labor Market*”, ACM SIGKDD International Conference on Data Mining and Knowledge Discovery, 2018.
- C2 H. A. Chaudhari, M. Mathioudakis, E. Terzi, “*Markov Chain Monitoring*”, SIAM Data Mining Conference, SDM 2018.
- C3 H. A. Chaudhari, J. W. Byers, E. Terzi, “*Putting Data in the Driver’s Seat: Optimizing Earnings for On-Demand Ride-Hailing*”, International Conference on Web Search and Web Data Mining, WSDM 2018.

- C4 S. M. Nikolakaki, C. Mavroforakis, A. Ene, E. Terzi, “*Mining Tours and Paths in Activity Networks*”, International World Wide Web Conference, WWW 2018.
- C5: E. Malmi, A. Gionis, E. Terzi: “*Active Network Alignment: A Matching-Based Approach*”, International Conference on Information and Knowledge Management, CIKM 2017.
- C6 B. Golshan, E. Terzi, “*Minimizing Tension in Teams*”, International Conference on Information and Knowledge Management, CIKM 2017.
- C7: N. Ruchansky, M. Crovella, E. Terzi: “*Targeted Matrix Completion*”, International Siam Data Mining Conference, SDM 2017.
- C8: E. Galbrun, B. Golshan, A. Gionis, E. Terzi: “*Finding Low-tension Communities*”. International Siam Data Mining Conference, SDM 2017.
- C9: A. Gionis, P. Rozenshtein, N. Tatti, E. Terzi: “*Community-aware Network Sparsification*”. International Siam Data Mining Conference, SDM 2017.
- C10: C. Mavroforakis, D. Erdős, M. Crovella, E. Terzi: “*Active Positive-Definite Matrix Completion*”. International Siam Data Mining Conference, SDM 2017.
- C11: G. Comarela, E. Terzi, M. Crovella: “*Detecting Unusually-Routed ASes: Methods and Applications*”. Internet Measurement Conference, IMC 2016.
- C12: N. Ruchansky, M. Crovella, E. Terzi: “*Matrix Completion with Queries*”. ACM SIGKDD International Conference on Data Mining and Knowledge Discovery, 2015.
- C13: C. Mavroforakis, R. Garcia-Lebron, Y. Koutis, E. Terzi: “*Spanning edge centrality: large-scale computation and applications*”. International World Wide Web Conference, WWW 2015.
- C14: D. Erdos, V. Ishakian, A. Bestavros, E. Terzi: “*A Divide-and-Conquer Algorithm for Betweenness Centrality*”. SIAM Data Mining Conference, SDM 2015.
- C15: S. Bahargam, D. Erdos, A. Bestavros and E. Terzi, “*Personalized Education; Solving a Group Formation and Scheduling Problem for Educational Content*”, International Conference on Educational Data Mining, EDM 2015.
- C16: B. Golshan, T. Lappas, E. Terzi: “*Profit-maximizing Cluster Hires*”. ACM SIGKDD International Conference on Data Mining and Knowledge Discovery, 2014.
- C17: R. Agrawal, B. Golshan, E. Terzi: “*Grouping students in educational settings*”. ACM SIGKDD International Conference on Data Mining and Knowledge Discovery, 2014.
- C18: B. Golshan, E. Terzi: “*Unveiling Variables in Systems of Linear Equations*”. SIAM Data Mining Conference, SDM 2014.
- C19: A. Gionis, T. Lappas, K. Pelechris, E. Terzi: “*Customized Tour Recommendations in Urban Areas*”, International Conference on Web Search and Web Data Mining, WSDM 2014 .
- C20: R. Agrawal, B. Golshan, E. Terzi, “*Forming Beneficial Teams of Students in Massive Online Classes*”, ACM Learning at Scale Conference, 2014.
- C21: B. Golshan, J. Byers , E. Terzi: “*What do row and column marginals reveal about your dataset?*”, NIPS 2013.
- C22: D. Erdos, V. Ishakian, A. Bestavros, E. Terzi: “*Repetition-aware content placement in navigational networks*”. ACM SIGKDD International Conference on Data Mining and Knowledge Discovery, 2013.
- C23: A. Gionis, E. Terzi, P. Tsaparas ”*Opinion Maximization in Social Networks*”. SIAM Data Mining Conference (SDM) 2013.
- C24: D. Erdos, R. Gemulla, E. Terzi ”*Reconstructing Graphs from Neighborhood Data*”. IEEE International Conference on Data Mining, 2012.
- C25: T. Lappas, E. Terzi “*Daily-Deal Selection for Revenue Maximization* ”. International Conference on Information and Knowledge Management (CIKM), 2012.
- C26: G. Gursun, N. Ruchansky, E. Terzi, M. Crovella, “*Routing State Distance: A Path-based Metric for Network Analysis*”. Internet Measurement Conference (IMC), 2012.

- C27: A. Gionis, T. Lappas, E. Terzi, “*Evaluating Importance via Counting Set Covers*”. ACM SIGKDD 2012.
- C28: T. Lappas, M. Crovella, E. Terzi, “*Selecting a Characteristic Set of Reviews*”. ACM SIGKDD 2012.
- C29: T. Lappas, E. Terzi, “*Daily Deal-Selection for Revenue Maximization*”. ACM CIKM 2012.
- C30: G. Misra, B. Golshan, E. Terzi “*Evaluating the Smoothness of Data-Mining Results*”. Principles and Practice of Knowledge Discovery in Databases, PKDD, 2012.
- C31: G. Gursun, N. Ruchansky, E. Terzi, M. Crovella, *Inferring Visibility: Who is not talking to whom*. ACM SIGCOMM 2012.
- C32: R. Agrawal, M. Potamias, E. Terzi, “*Inferring the nature of information in social networks*”. AAAI ICWSM 2012.
- C33: B. Golshan, T. Lappas, E. Terzi, “*Sofia Search: A Tool for Automating Related-Work Search*”, ACM SIGMOD Conference 2012, Demo track.
- C34: V. Ishakian, D. Erdos, E. Terzi, A. Bestavros, “*A Framework for the Evaluation and Management of Network Centrality*”, Siam Data Mining Conference (SDM) 2012.
- C35: D. Erdos, V. Ishakian, A. Lapets, E. Terzi, A. Bestavros, “*The FilterPlacement Problem and its Application to Minimizing Information Multiplicity*”, International Conference on Very Large DataBases, VLDB 2012.
- C36: A. Anagnostopoulos, G. Brova, E. Terzi, “*Peer and authority pressure in information-propagation models*”, Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD) 2011.
- C37: T. Lappas, E. Terzi, “*Toward a fair review-management system*”, Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD) 2011.
- C38: P. Tsaparas, A. Ntoulas, E. Terzi, “*Selecting a comprehensive set of reviews*”, ACM SIGKDD International Conference on Data Mining and Knowledge Discovery (KDD) 2011.
- C39: E. Terzi, M. Winkler, “*A Spectral algorithm for computing social balance*”, Workshop on Algorithms and Models for the Web Graph (WAW) 2011.
- C40: T. Lappas, E. Terzi, D. Gunopoulos, H. Mannila, “*Finding Effectors in Social Networks*”, ACM SIGKDD International Conference on Data Mining and Knowledge Discovery (KDD) 2010.
- C41: N. Vuokko, E. Terzi, “*Reconstructing randomized social networks*”, SIAM Data Mining Conference (SDM) 2010.
- C42: K. LeFevre, E. Terzi, “*GraSS: Graph Structure Summarization*”, SIAM Data Mining Conference (SDM) 2010.
- C43: K. Liu, E. Terzi “*A framework for computing the privacy score of users in online social networks*”, IEEE International Conference on Data Mining (ICDM) 2009.
- C44: T. Lappas, K. Liu, E. Terzi, “*Finding a team of experts in social networks*”, ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD) 2009.
- C45: H. Mannila, E. Terzi “*Finding links and initiators: a graph-reconstruction problem*”, SIAM Data Mining Conference (SDM) 2009.
- C46: W. Davis, P. Schwarz, E. Terzi “*Finding representative association rules*”, SIAM Data Mining Conference (SDM) 2009.
- C47: K. Liu, E. Terzi, T. Grandison “*Highlighting diverse concepts in documents*”, SIAM Data Mining Conference (SDM) 2009.
- C48: J. Kiernan, E. Terzi: “*EventSummarizer: A tool for constructing comprehensive summaries of large event sequences*”, International Conference on Extending Database Technology (EDBT) 2009, (Demo track).
- C49: S. Hyvönen, P. Miettinen, E. Terzi, “*Interpretable Nonnegative Matrix Decompositions*”, ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD) 2008.
- C50: J. Kiernan, E. Terzi, “*Constructing Comprehensive Summaries of Large Event Sequences*”, ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD) 2008.

- C51: K. Liu, E. Terzi, T. Grandison “MANYASPECTS: A System for Highlighting Diverse Concepts in Documents”, International Conference on Very Large Databases (VLDB) 2008 (demo paper).
- C52: K. Liu, E. Terzi, “Towards Identity Anonymization on Graphs”, ACM International Conference on Management of Data (SIGMOD) 2008.
- C53: H. Mannila, E. Terzi, “Nestedness and Segmented Nestedness”, ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD) 2007.
- C54: A. Gionis, E. Terzi, “Segmentations with Rearrangements”, Siam Data Mining Conference (SDM) 2007.
- C55: T. Mielikäinen, E. Terzi, P. Tsaparas, “Aggregating Time Partitions”, ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD) 2006.
- C56: R. Agrawal, R. Rantzau, E. Terzi, “Context-sensitive Ranking”, ACM International Conference on Management of Data (SIGMOD) 2006.
- C57: R. Agrawal, E. Terzi, “On Honesty in Sovereign Information Sharing”, 10th International Conference on Extended DataBase Technology (EDBT) 2006.
- C58: E. Terzi, P. Tsaparas, “Efficient Algorithms for Sequence Segmentation”, Siam Data Mining Conference (SDM) 2006.
- C59: E. Bingham, A. Gionis, N. Haiminen, H. Hisila, H. Mannila, E. Terzi, “Segmentation and Dimensionality Reduction”, Siam Data Mining Conference (SDM) 2006.
- C60: E. Bertino, A. Kamra, E. Terzi, A. Vakali, “Intrusion detection in RBAC-administered databases”, 21st Annual Computer Security Applications Conference (ACSAC) 2005.
- C61: F. Geerts, H. Mannila, E. Terzi, “Relational link-based ranking”, 30th Conference on Very Large Databases (VLDB) 2004.
- C62: A. Gionis, H. Mannila, E. Terzi, “Clustered Segmentations”, 3rd Workshop on Mining Temporal and Sequential Data (TDM) 2004.
- C63: E. Bertino, T. Leggieri, E. Terzi, “Securing DBMS: Characterizing and Detecting Query Floods”, Information Security Conference (ISC) 2004.
- C64: E. Terzi, A. Vakali, M-S. Hacid, “Knowledge Representation, Ontologies, and the Semantic Web”, Asian-Pacific Web Conference (APWeb) 2003.
- C65: H. Hajji, E. Terzi, “A Framework for Reasoning on Objects with Geometric Constraints”, International Conference on Database and Expert Systems Applications (DEXA) 2002.
- C66: D. Benslimane, M-S. Hacid, E. Terzi, F. Toumani, “A Class-Based Logic Language for Ontologies”, International Conference on Flexible Query Answering Systems (FQAS) 2002.
- C67: E. Terzi, Y. Zhong, B. K. Bhargava, Pankaj, S. K. Madria “An Algorithm for Building User-Role Profiles in a Trust Environment”, International Conference on Data Warehousing and Knowledge Discovery (DaWaK) 2002.
- C68: W. G. Aref, A. C. Catlin, A. K. Elmagarmid, J. Fan, J. Guo, M. A. Hammad, I. F. Ilyas, M. S. Marzouk, S. Prabhakar, A. Rezgui, S. Teoh, E. Terzi, Y. Tu, A. Vakali, X. Zhu, “A Distributed Database Server for Continuous Media”, ICDE 2002: 490-491.
- C69: M-S. Hacid, E. Terzi, A. Vakali, “Querying XML with Constraints”, International Conference on Internet Computing (IC) 2001.

Book Chapters

- BC1: T. Lappas, K. Liu, E. Terzi, “A Survey of Algorithms and Systems for Expert Location in Social Networks”, in Social Network Data Analytics (editor: Charu C. Aggarwal), 2011.
- BC2: K. Clarkson, K. Liu, E. Terzi, “Towards identity anonymization in social networks”, Link Mining: Models, Algorithms and Applications (editors: C. Faloutsos, J. Han, P. Yu), 2010.
- BC3: T. Grandison, E. Terzi, “Intrusion Detection Technologies”, Encyclopedia of Database Systems, Springer, 2009.

BC4: H. Toivonen, P. Onkamo, P. Hintsanen, E. Terzi, P. Sevon, “*Data Mining in Gene Mapping*”, New Generation of Data Mining Applications by Jozef Zurada and Medo Kantardzic (Eds.), IEEE Press.

Books

B1: E. Zheleva, E. Terzi, L. Getoor, “*Privacy and Online Social Networks*”. Morgan and Claypool Publishers, 2012.

Tutorials

T1: M. Hay, K. Liu, G. Miklau, J. Pei, E. Terzi, “*Privacy-aware Data Management in Information Networks*”, ACM Conference on Management of Data (SIGMOD) 2011.

T2: K. Liu, G. Miklau, J. Pei, E. Terzi, “*Privacy-aware Data Mining in Information Networks*”, ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD) 2010.

Patents

P1: P. Tsaparas, A. Ntoulas, E. Terzi “*A method for finding a comprehensive set of reviews*”, Microsoft, filed 2011.

P2: V. Bhagwan, T. Grandison, C. Grant, B. Hickerson, K. Liu, E. Terzi, T. Thakur *Personalized Electronic Healthcare Management*, IBM, Filed February 2010.

P3: T. Grandison, K. Liu, E. Terzi *MANYASPECTS: A system for highlighting diverse concepts in documents*”, IBM, filed September 2008.

P4: J. Kiernan, E. Terzi, “*Constructing comprehensive summaries of large event sequences*”, IBM, filed August 2008.

P5: K. Liu, E. Terzi, “*Identity anonymization for graphs*”, IBM, filed June 2008.

P6: R. Agrawal, S. Gollapudi, E. Terzi, “*Problem and Apparatus for Query Specialization*”, Microsoft Search Labs, filed January 2007.

INVITED LECTURES AND PRESENTATIONS

Big Social Media Data Management and Analysis (BSMDMA) Workshop , in conjunction with IEEE Big Data 2017, Keynote talk. Title of the talk: “*Computational problems in team formation*”, December 2017.

Northeastern University, EE Department . Title of the talk: “*Entity Selection and Ranking in data-mining applications*”, June 2017.

ASONAM Conference, Keynote talk: Title of the talk: “*Computational Problems for Team Formation*”, IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), 2016.

Aalto University, Helsinki Finland: Title of the talk: “*Entity Selection and Ranking in data-mining applications*”, April 2016.

Turkcell: Title of the talk: “*Entity Selection and Ranking in data-mining applications*”, April 2016.

Ozyegin University: Title of the talk: “*Opinion dynamics in social networks*”, April 2016.

NYU: Title of the talk: “*Entity Selection and Ranking in data-mining applications*”, April 2016.

University of Ioannina, Greece: Title of the talk: “*Entity Selection and Ranking in data-mining applications*”, March 2016.

Northeastern University, Network Science Institute . Title of the talk: “*Entity Selection and Ranking in data-mining applications*”, February 2016.

Invited talk at the 2nd Workshop on Semantic Web Research . Title of the talk: “*Entity selection and Ranking for data-mining applications*”, January 2016.

Invited tutorial on the summer school organized by the Center on Semantic Web Research . Title of the tutorial: *“Team formation problems in social networks”*, January 2016.

La Sapienza University of Rome . Title of the talk: *“Entity Selection and Ranking in data-mining applications”*, December 2015.

Invited tutorial on the summer school on Networks and Data Mining . Title of the tutorial: *“Team formation problems in social networks”*, June 2015.

Quora . Title of the talk: *“Recommender Systems in a Complex World”*, April 2015.

LinkedIn Corp. . Title of the talk: *“Recommender Systems in a Complex World”*, April 2015.

Digital Technology Center, University of Minnesota . Title of the talk: *“Entity selection and ranking for data-mining applications”*, November 2014.

LinkedIn Corp. . Title of the talk: *“Structural Matrix Completion”*, July 2014.

Invited Talk at the 11-th Workshop on Mining and Learning with Graphs, co-located with ACM SIGKDD 2013 . Title of the talk: *“Opinion maximization in social networks”*, August 2013.

American Express, New York City, NY . Title of the talk: *“Opinion maximization in social networks”*, July 2013.

Computer Science Department, Rensselaer Polytechnic Institute (RPI) . Title of the talk: *“Entity selection and ranking for data-mining applications”*, May 2013.

Computer Science Department, UMass Amherst . Title of the talk: *“Entity selection and ranking for data-mining applications”*, April 2013.

BBN Technologies . Title of the talk: *“Path-based distance measures for network applications”*, March 2013.

Hariri Institute of Computing, BU . Title of the talk: *“Entity selection and ranking for data-mining applications”*, March 2013.

Computer Science Department, University of Pittsburgh . Title of the talk: *“Path-based distance measures for network applications”*, Jan. 2013.

Computer Science Department, Carnegie Mellon University (CMU) . Title of the talk: *“Entity Selection and Ranking in Data-Mining Applications”*, Jan. 2013.

Keynote talk, 2nd International Workshop on Mining Communities and People Recommenders , co-located with ECML / PKDD 2012. Title of the talk: *“Entity Selection and Ranking in Data Mining Applications”*, Sept. 2012.

Keynote speaker, Workshop on Computer Privacy in Electronic Commerce . Title of the talk: *“A Framework for Computing the Privacy Score of Users in Online Social Networks”*, April 2012.

Center of Information and Systems Engineering (CISE), Boston University . Title of the talk: *“Algorithmic Problems in Online Review-Management Systems”*, March 2012.

Math/CS Colloquium, University of Richmond . Title of the talk: *“Algorithmic Problems in Online Review-Management Systems”*, February 2012.

NSF Workshop on Social Networks and Cloud Computing , title of the talk: *“Towards Generalized Centrality Measures with Applications to Information Networks”*, February 2012.

Keynote talk, 1st International Workshop on Mining Communities and People Recommenders , co-located with ICDM 2011. Title of the talk: *“Algorithmic Problems in Online Review-Management Systems”*, December 2011.

Theory Seminar, Computer Science Dept., Northeastern University . Title of the talk: *“A framework for computing the privacy score of users in online social networks”*, March 2011.

Theory Seminar, Computer Science Dept., Boston University . Title of the talk: *“Algorithms for finding teams of attributing skills within team members”*, March 2011.

Yahoo! Labs, Santa Clara, CA . Title of the talk: *“Finding Teams and Initiators in Social Networks”*, May 2009.

Microsoft Research, Mountain View, CA . Title of the talk: *“Finding Teams and Initiators in Social Networks”*, May 2009.

CS Department, EPFL . Title of the talk *“Problems and Algorithms on Sequence Segmentation”*, April 2009.

CS Department, Boston University . Title of the talk “*Problems and Algorithms on Sequence Segmentation*”, March 2009.

ECE Department, University of Michigan, Ann Arbor . Title of the talk “*Problems and Algorithms on Sequence Segmentation*”, February 2009.

Invited Speaker on the Workshop on Time-Series Change Point Detection . Title of the talk “ *Problems and Algorithms on Sequence Segmentation*”, Paris, France, September 2009.

ECE Department, University of Chania, Greece . Title of the talk “ *A Framework for Identity Anonymization on Graphs*”, April 2008.

CS Department, University of Helsinki, Finland . Title of the talk “ *Query Suggestions*”, January 2008.

Microsoft Research, Seattle, WA . Title of the talk: “ *Problems and Algorithms for Sequence Segmentation*”, September 2006.

IBM Almaden Research Center . Title of the talk: “ *Problems and Algorithms for Sequence Segmentation*”, September 2006.

MENTORING AND TEACHING

Post-doctoral researchers

Dr. Theodoros Lappas (2011-2013). Currently: Assistant Professor position at Stevens Institute of Technology, School of Management (started Aug. 2013).

Dr. Esther Galbrun (2011-2013). Currently: Researcher (CR2) at Inria Nancy Grand Est.

Graduated PhD students

Advisor: Charalampos Mavroforakis (2018, currently engineer at Facebook), Sanaz Bahargam (2017, currently data scientist at Twitter), Natali Ruchansky (2017, currently senior data scientist at Hush), Behzad Golshan (2016, currently research scientist at Recruit Institute of Technology), Dora Erdos (2015, currently lecturer at BU).

Second reader: Giovanni Comarella (2018, currently assistant professor at Department of Informatics, UFV, Brazil), Gonca Gursun (2013, currently assistant professor at Ozyegin University, Turkey), Michalis Potamias (2011, currently engineer at Google).

Committee member: Vatche Ishakian (2013, currently assistant professor at Bentley University), Giorgos Zervas (2011, currently assistant professor at BU – school of management).

MSc students

MSc thesis supervisor: George Brova (2012, now PhD student at UIUC), Sophia Van Valkenburg (exp. 2013).

MSc project supervisor: Nikka Ghalili (2013), Mandy (Min) Ye (2010).

Undergraduate students

UROP: Valerie Young (Fall 2012)

Courses Taught

- Data Mining (CS 565): Fall 2009, Fall 2010, Fall 2011, Fall 2012, Fall 2013, Fall 2014, Fall 2016, Fall 2017. Class is constantly revamped to match the research progress in the area.
- Combinatorial Structures (CS 131): Spring 2011, Spring 2012, Spring 2013.
- Seminar on Social Networks (CS 591): Spring 2010.
- Data Mining in Practice (CS 591): Spring 2015.

- Computational Tools for Data Science (CS 506): Spring 2017. This class was developed in Spring 2015 and is now taught both in the Spring and the Fall semesters due to high demand.

Outreach Activities

- Mentor for a RISE high-school student, summer 2017.
- Held a tutorial session for graduate students on studying for IT-company interviews, following the book “Cracking the coding interview” (Fall, 2014).
- Participation in BU Artemis Project for rising 9th grade girls focused on Computer Science (2011).
- Participation in BU Summer Pathways program for female high-school students (2012).

UNIVERSITY SERVICE

- CS Department: PhD admissions chair 2016-'17.
- CS Department: Graduate Admissions Committee, 2010, 2011.
- CS Department: Faculty Merit Committee, 2011.
- CS Department: Distinguished Alumnus/Alumna Committee, 2013.
- CS Department: Faculty Search Committee, 2013-2014.
- CAS: Diversity committee, 2017-2018.
- University: UROP Committee, 2009, 2010, 2011, 2012.
- University: Judge at Scholars Day, 2013.
- University: Natural Sciences Curriculum Committee, 2013-2014, 2014-2015.
- University: Provost’s Data Science Initiative Faculty Search, 2014-2017
- Bioinformatics Program: Bioinformatics Faculty Search Committee, 2012-'13.

PROFESSIONAL SERVICE

Journal Editor

- Associate editor for IEEE Transactions on Knowledge and Data Engineering, 2014 - 2018.

Conference Organization

- Program co-chair (research track) for ACM SIGKDD 2019.
- Journal Track Co-chair for ECML/PKDD 2019.
- Program Co-chair of “Social networks and graph analysis track”, in WWW 2015.
- Tutorial co-chair at WISE 2014.
- Co-chair of the Nectar Track of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, ECML-PKDD 2014.
- Co-chair of the Nectar Track of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, ECML-PKDD 2014.
- Co-organizer of the 2nd ACM SIGMOD Workshop on Databases and Social Networks (DBSocial) 2012.
- Co-Chair of ICDM PhD Forum, 2012.
- Vice-Chair of International Conference on Data Mining (ICDM) 2011.
- Tutorial co-chair of International Conference on Data Mining (ICDM) 2011.

- Workshop co-chair of Siam Conference on Data Mining (SDM) 2011.

Senior Program Committee Member

- International Conference on Machine Learning (ICML '16)
- Conference on Information and Knowledge Management (CIKM '14, CIKM '15, CIKM'16)
- Knowledge Discovery and Data Mining (KDD '11, KDD '13, KDD '14, KDD '16, KDD'17, KDD '18)
- International Conference on Data Mining (ICDM '14, ICDM '15, ICDM'16, ICDM'18)
- International Conference on Web and Social Media (ICWSM '15, ICWSM '16)
- ACM International Conference on Web Search and Data Mining (WSDM '16, WSDM'17, WSDM'18, WSDM '19)
- Principles of Knowledge Discovery and Data Mining (PKDD '10, PKDD '11, PKDD '16)
- Siam Data Mining (SDM '10, SDM '11, SDM '15, SDM '16, SDM'17, SDM '18, SDM '19)

Program Committee Member: I have been in the program committee of most of the data-mining/database conferences every year since 2006. These conferences include ACM SIGKDD, VLDB, SIGMOD, ICDE, ICDM, PKDD, SDM, WWW, WSDM, EC (once), PODS (twice), EDBT (twice), NIPS (twice), AAAI (twice).

Journal Reviewer

- Journal of the ACM (JACM)
- Algorithmica
- ACM Transactions on Knowledge Discovery from Data (TKDD)
- IEEE Transactions on Database Systems (TODS)
- IEEE Transactions on Knowledge and Data Engineering (TKDE)
- VLDB Journal,
- Journal of Discrete Algorithms
- IEEE/ACM Transactions on Computational Biology and Bioinformatics,
- IEEE Transactions on Dependable and Secure Computing
- IEEE Computing in Science and Engineering
- Knowledge and Information Systems Journal (KAIS)
- International Journal of the Foundations of Computer Science (IJFCS)

Panel Participation

- NSF 2009, 2010, 2013, 2016, 2017.