

# CURRICULUM VITAE

## PERSONAL INFORMATION

**Name:** Evimaria Terzi

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## 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 Associate Professor**, Department of Computer Science, La Sapienza University of Rome, Sept-Dec 2015 (during sabbatical leave from Boston University).

**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

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: “*Structural Matrix Completion for Data Mining Applications*”; co-PI, (PI: Mark Crovella, from BU, CS), (500K).

NSF Award: “*SCOPE: A smart-city Cloud-based Open Platform and Ecosystem*”; co-PI, (PI: Azer Bestavros) (\$ 800K), 2014-2017.

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

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

NSF Award: “*Managing and Mining Uncertain Graphs*”; co-PI, (PI: George Kollios, from BU, CS), (\$ 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: E. Galbrun, K. Pelechrinis, E. Terzi, “*Urban navigation beyond shortest route: The case of safe paths*”, *Inf. Syst.* , 2016.

J2: , 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.

J3: D. Erdos, R. Gemulla, E. Terzi, “*Reconstructing Graphs from Neighborhood Data*”, *ACM Transactions on Knowledge Discovery from Data (ACM TKDD)*, 2014.

J4: G. Kollios, M. Potamias, E. Terzi, “*Clustering large probabilistic graphs*”, *IEEE Transactions on Data and Knowledge Engineering (IEEE TKDE)*, 2013.

J5: 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 microbiome*”. *Clinical Vaccine Immunology*, 2013.

- J6: P. I. Diaz, A. K. Dupuy, L. Abusleme, B. Reese, C. Obergfell, 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.
- J7: 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.
- J8: J. Kiernan, E. Terzi, “*Constructing comprehensive summaries of large event sequences*”, ACM Transactions on Knowledge Discovery from Data (ACM TKDD), 3(4), 2009.
- J9: T. Feder, H. Mannila, E. Terzi, “*Approximating the minimum chain-completion problem*” Information Processing Letters 109(17): 980-985 (2009).
- J10: N. Haiminen, H. Mannila, E. Terzi, “*Determining significance of pairwise co-occurrences of events in bursty sequences*” BMC Bioinformatics 2008, Volume 9, Pages 336.
- J11: A. Kamra, E. Terzi, E. Bertino, “*Detecting anomalous access patterns in relational databases*”, VLDB Journal, 2008.
- J12: N. Haiminen, H. Mannila, E. Terzi, “*Comparing segmentations by applying randomization techniques*”, BMC Bioinformatics 2007, Volume 8, Pages 171.
- J13: 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.
- J14: A. Vakali, E. Terzi, E. Bertino, A. K. Elmagarmid, “*Hierarchical data placement for navigational multimedia applications*”, Data Knowl. Eng. 44(1): 49-80 (2003).
- J15: 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: N. Ruchansky, M. Crovella, E. Terzi: “*Matrix Completion with Queries*”. ACM SIGKDD International Conference on Data Mining and Knowledge Discovery, 2015.
- C2: C. Mavroforakis, R. Garcia-Lebron, Y. Koutis, E. Terzi: “*Spanning edge centrality: large-scale computation and applications*”. International World Wide Web Conference, WWW 2015.
- C3: D. Erdos, V. Ishakian, A. Bestavros, E. Terzi: “*A Divide-and-Conquer Algorithm for Betweenness Centrality*”. SIAM Data Mining Conference, SDM 2015.
- C4: 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.
- C5: B. Golshan, T. Lappas, E. Terzi: “*Profit-maximizing Cluster Hires*”. ACM SIGKDD International Conference on Data Mining and Knowledge Discovery, 2014.
- C6: R. Agrawal, B. Golshan, E. Terzi: “*Grouping students in educational settings*”. ACM SIGKDD International Conference on Data Mining and Knowledge Discovery, 2014.
- C7: B. Golshan, E. Terzi: “*Unveiling Variables in Systems of Linear Equations*”. SIAM Data Mining Conference, SDM 2014.
- C8: A. Gionis, T. Lappas, K. Pelechris, E. Terzi: “*Customized Tour Recommendations in Urban Areas*”, WSDM 2014 .
- C9 R. Agrawal, B. Golshan, E. Terzi, “*Forming Beneficial Teams of Students in Massive Online Classes*”, ACM Learning at Scale Conference, 2014.
- C10: B. Golshan, J. Byers , E. Terzi: “*What do row and column marginals reveal about your dataset?*”, NIPS 2013.
- C11: 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.
- C12: A. Gionis, E. Terzi, P. Tsaparas ”*Opinion Maximization in Social Networks*”. SIAM Data Mining Conference (SDM) 2013.

- C13: D. Erdos, R. Gemulla, E. Terzi "Reconstructing Graphs from Neighborhood Data". IEEE International Conference on Data Mining, 2012.
- C14: T. Lappas, E. Terzi "Daily-Deal Selection for Revenue Maximization ". International Conference on Information and Knowledge Management (CIKM), 2012.
- C15: G. Gursun, N. Ruchansky, E. Terzi, M. Crovella, "Routing State Distance: A Path-based Metric for Network Analysis". Internet Measurement Conference (IMC), 2012.
- C16: A. Gionis, T. Lappas, E. Terzi, "Evaluating Importance via Counting Set Covers". ACM SIGKDD 2012.
- C17: T. Lappas, M. Crovella, E. Terzi, "Selecting a Characteristic Set of Reviews". ACM SIGKDD 2012.
- C18: T. Lappas, E. Terzi, "Daily Deal-Selection for Revenue Maximization". ACM CIKM 2012.
- C19: G. Misra, B. Golshan, E. Terzi "Evaluating the Smoothness of Data-Mining Results". Principles and Practice of Knowledge Discovery in Databases, PKDD, 2012.
- C20: G. Gursun, N. Ruchansky, E. Terzi, M. Crovella, *Inferring Visibility: Who is not talking to whom*. ACM SIGCOMM 2012.
- C21: R. Agrawal, M. Potamias, E. Terzi, "Inferring the nature of information in social networks". AAAI ICWSM 2012.
- C22: B. Golshan, T. Lappas, E. Terzi, "Sofia Search: A Tool for Automating Related-Work Search", ACM SIGMOD Conference 2012, Demo track.
- C23: V. Ishakian, D. Erdos, E. Terzi, A. Bestavros, "A Framework for the Evaluation and Management of Network Centrality", Siam Data Mining Conference (SDM) 2012.
- C24: 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.
- C25: 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.
- C26: T. Lappas, E. Terzi, "Toward a fair review-management system", Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD) 2011.
- C27: P. Tsaparas, A. Ntoulas, E. Terzi, "Selecting a comprehensive set of reviews", ACM SIGKDD International Conference on Data Mining and Knowledge Discovery (KDD) 2011.
- C28: E. Terzi, M. Winkler, "A Spectral algorithm for computing social balance", Workshop on Algorithms and Models for the Web Graph (WAW) 2011.
- C29: 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.
- C30: N. Vuokko, E. Terzi, "Reconstructing randomized social networks", SIAM Data Mining Conference (SDM) 2010.
- C31: K. LeFevre, E. Terzi, "GraSS: Graph Structure Summarization", SIAM Data Mining Conference (SDM) 2010.
- C32: 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.
- C33: 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.
- C34: H. Mannila, E. Terzi "Finding links and initiators: a graph-reconstruction problem", SIAM Data Mining Conference (SDM) 2009.
- C35: W. Davis, P. Schwarz, E. Terzi "Finding representative association rules", SIAM Data Mining Conference (SDM) 2009.
- C36: K. Liu, E. Terzi, T. Grandison "Highlighting diverse concepts in documents", SIAM Data Mining Conference (SDM) 2009.

- C37: 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).
- C38: S. Hyvönen, P. Miettinen, E. Terzi, “*Interpretable Nonnegative Matrix Decompositions*”, ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD) 2008.
- C39: J. Kiernan, E. Terzi, “*Constructing Comprehensive Summaries of Large Event Sequences*”, ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD) 2008.
- C40: 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).
- C41: K. Liu, E. Terzi, “*Towards Indentity Anonymization on Graphs*”, ACM International Conference on Management of Data (SIGMOD) 2008.
- C42: H. Mannila, E. Terzi, “*Nestedness and Segmented Nestedness*”, ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD) 2007.
- C43: A. Gionis, E. Terzi, “*Segmentations with Rearrangements*”, Siam Data Mining Conference (SDM) 2007.
- C44: T. Mielikäinen, E. Terzi, P. Tsaparas, “*Aggregating Time Partitions*”, ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD) 2006.
- C45: R. Agrawal, R. Rantzaou, E. Terzi, “*Context-sensitive Ranking*”, ACM International Conference on Management of Data (SIGMOD) 2006.
- C46: R. Agrawal, E. Terzi, “*On Honesty in Sovereign Information Sharing*”, 10th International Conference on Extended DataBase Technology (EDBT) 2006.
- C47: E. Terzi, P. Tsaparas, “*Efficient Algorithms for Sequence Segmentation*”, Siam Data Mining Conference (SDM) 2006.
- C48: E. Bingham, A. Gionis, N. Haiminen, H. Hisila, H. Mannila, E. Terzi, “*Segmentation and Dimensionality Reduction*”, Siam Data Mining Conference (SDM) 2006.
- C49: E. Bertino, A. Kamra, E. Terzi, A. Vakali, “*Intrusion detection in RBAC-administered databases*”, 21st Annual Computer Security Applications Conference (ACSAC) 2005.
- C50: F. Geerts, H. Mannila, E. Terzi, “*Relational link-based ranking*”, 30th Conference on Very Large Databases (VLDB) 2004.
- C51: A. Gionis, H. Mannila, E. Terzi, “*Clustered Segmentations*”, 3rd Workshop on Mining Temporal and Sequential Data (TDM) 2004.
- C52: E. Bertino, T. Leggieri, E. Terzi, “*Securing DBMS: Characterizing and Detecting Query Floods*”, Information Security Conference (ISC) 2004.
- C53: E. Terzi, A. Vakali, M-S. Hacid, “*Knowledge Representation, Ontologies, and the Semantic Web*”, Asian-Pacific Web Conference (APWeb) 2003.
- C54: H. Hajji, E. Terzi, “*A Framework for Reasoning on Objects with Geometric Constraints*”, International Conference on Database and Expert Systems Applications (DEXA) 2002.
- C55: 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.
- C56: 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.
- C57: 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.
- C58: 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. Sevón, “*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

- Northeastern University . 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 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, Assistant Professor at Stevens Institute of Technology, School of Management, since 2013.)

Dr. Esther Galbrun (2014-2015, Junior researcher (CR2) at INRIA Nancy Grand Est., since June 2015.)

### Graduated PhD students

Advisor: Dora Erdos (BU, graduated 2015, currently post-doctoral researcher at Brown University).

Second reader: Gonca Gursun (BU, graduated 2013, currently Assistant Professor at Ozyegin University, Turkey), Michalis Potamias (BU, graduated 2011 now at Google) Committee member: Vatche Ishakian (BU, graduated 2013, currently at IBM), Di Yang (WPI, graduated 2012), Giorgos Zervas (BU, graduated 2011, currently Assistant Professor at BU School of Management).

Second reader: Gonca Gursun (BU, 2013), Michalis Potamias (BU, 2011 now at Groupon)

Committee member: Vatche Ishakian (BU, 2013), Di Yang (WPI, 2012), Giorgos Zervas (BU, 2011)

### Current PhD students

Advisor: Behzad Golshan (BU, graduating May 2016), Natali Ruchansky (BU, graduating Sept. 2016), Charalampos Mavroforakis (BU, expected graduation date 2017), Sofia Nikolakaki (BU, expected graduation date 2021).

Second reader: Giovanni Comarella (BU, expected graduation date 2018), Bashir Rastegarpanah (BU, expected graduation date 2020).

### MSc students

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

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

### Undergraduate students

UROP: Valerie Young (Fall 2012)

Undergraduate research assistant: Ben Lawson (Summer 2015, Fall 2015, Spring 2016).

### Courses Taught

- Data Mining in Practice (CS 591): Spring 2015
- Data Mining (CS 565): Fall 2009, Fall 2010, Fall 2011, Fall 2012, Fall 2013, Fall 2014
- Combinatorial Structures (CS 131): Spring 2011, Spring 2012, Spring 2013
- Seminar on Social Networks (CS 591): Spring 2010
- Seminar on Big and Small Data (CS 591): Spring 2014
- Summer course on Algorithms for Big Data (CS 591): Summer 2014



## **Outreach Activities**

- 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: 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.
- 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, since January 2014.

### **Conference Organization**

- 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)
- Knowledge Discovery and Data Mining (KDD ’11, KDD ’13, KDD ’14, KDD ’16)
- International Conference on Data Mining (ICDM ’14, ICDM ’15)

- International Conference on Web and Social Media (ICWSM '15, ICWSM '16)
- ACM International Conference on Web Search and Data Mining (WSDM '16)
- Principles of Knowledge Discovery and Data Mining (PKDD '10, PKDD '11, PKDD '16)
- Siam Data Mining (SDM '10, SDM '11, SDM '15, SDM '16)

**Program Committee Member:** I have been in the program committee of most of the data-mining/database conferences since 2006. These conferences include ACM SIGKDD, VLDB, SIGMOD, ICDE, ICDM, PKDD, SDM, WWW, WSDM, EC (once), PODS (twice), EDBT (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, 2015, 2016.

#### **References**

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