Evgenios M. Kornaropoulos

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Research Interest

Computer Security, Applied Cryptography, Design & Analysis of Algorithms, Applied Probability

Education

2014-Present **Ph.D. in Computer Science**

Department of Computer Science, Brown University, Providence, RI, USA.
Advisor: Roberto Tamassia

2012-2014 **M.Sc. in Computer Science**

Department of Computer Science, Brown University, Providence, RI, USA.

Postgraduate Courses Attended:

CSCI1510	Introduction to Cryptography (A. Lysyanskaya)
MATH-1580	Cryptography (B. Viray)
CSCI1550	Probabilistic Methods in Computer Science (E. Upfal)
CSCI2950-V	Topics in Applied Cryptography (S. Kamara)
CSCI2951-E	Topics in Computer System Security (R. Tamassia)
CSCI2951-F	Learning and Sequential Decision Making (M. Littman)
CSCI2951-H	Algorithms for Big Data (E. Upfal)
CSCI2951-U	Topics in Software Security (V. Kemerlis)

2009-2012 **M.Sc. in Computer Science**

Department of Computer Science, University of Crete, Heraklion Crete, Greece.

Thesis Title: "Dominance Drawing of Non-Planar Graphs"
Advisor: Ioannis G. Tollis

2005-2009 **B.Sc. in Computer Science**

Department of Computer Science, University of Crete, Heraklion Crete, Greece.

Publications

Refereed Conferences

9. **E. M. Kornaropoulos**, C. Papamanthou, R. Tamassia: *"Data Recovery on Encrypted Databases With k-Nearest Neighbor Query Leakage"*, Proc. of the 40^{th} IEEE Symposium on Security and Privacy (S&P'19), pp. 245-262, May, 2019.

8. M T. Goodrich, **E. M. Kornaropoulos**, M. Mitzenmacher, R. Tamassia: *"Auditable Data Structures"*, Proc. of 2^{nd} IEEE European Symposium on Security and Privacy (EuroS&P'17), pp. 285-300, April, 2017.

7. M T. Goodrich, **E. M. Kornaropoulos**, M. Mitzenmacher, R. Tamassia: *"More Practical and Secure History-Independent Hash Tables"*, Proc. of the 21^{st} European Symposium on Research in Computer Security (ESORICS'16), LNCS vol. 9879, pp. 20-38, Springer-Verlag, September, 2016.

6. A. Mahmoody, **E. M. Kornaropoulos**, E. Upfal: *"Optimizing Static and Adaptive Probing Schedules for Rapid Event Detection"*, Proc. of the 9^{th} Conference on Combinatorial Optimization and Applications (COCOA'15), December, 2015.

5. M. Riondato and **E. M. Kornaropoulos**: *"Fast Approximation of Betweenness centrality through Sampling"*, Proc. of the 7^{th} ACM International Conference on Web Search and Data Mining (WSDM'14), pp. 413-422, March, 2014.

4. **E. M. Kornaropoulos** and I. G. Tollis: *"Weak Dominance Drawings for Directed Acyclic Graphs"*, Proc. of the 20^{th} International Symposium on Graph Drawing (GD'12), LNCS vol. 7704, pp. 559-560, Springer-Verlag, September, 2012.

3. **E. M. Kornaropoulos** and I. G. Tollis: *"DAGView: An Approach for Visualizing Large Graphs"*, Proc. of the 20^{th} International Symposium on Graph Drawing (GD'12), LNCS vol. 7704, pp. 499-510, Springer-Verlag, September, 2012.

2. **E. M. Kornaropoulos** and I. G. Tollis: *"Overloaded Orthogonal Drawings"*, Proc. of the 19^{th} International Symposium on Graph Drawing (GD'11), LNCS vol. 7034, pp. 242-253, Springer-Verlag, September, 2011.

1. **E. M. Kornaropoulos** and P. Tsakalides: *"A novel kNN classifier for acoustic vehicle classification based on alpha-stable statistical modeling"*, Proc. IEEE 15^{th} Workshop on Statistical Signal Processing (SSP'09), September, 2009.

Refereed Journals

3. W. Didimo, **E. M. Kornaropoulos**, F. Montecchiani, I. G. Tollis: *"A Visualization Framework and User Studies for Overloaded Orthogonal Drawings"*, in Computer Graphics Forum (CGF), John Wiley & Sons, (2017).

2. M. Riondato and **E. M. Kornaropoulos**: *"Fast Approximation of Betweenness centrality through Sampling"*, in Journal of Data Mining and Knowledge Discovery (DMKD), 30(2): 438-475 (2016).

1. **E. M. Kornaropoulos** and I. G. Tollis: *"Algorithms for Overloaded Orthogonal Drawings"*, in Journal of Graph Algorithms and Applications (JGAA), 20(2): 217-246 (2016).

Research Experience

Research Intern

5/2016-8/2016 NetApp Advanced Technology Group, *Waltham, MA, USA*

1/2015-4/2015 Symantec Research Labs, *Culver City, CA, USA*

Research Assistant

2012-Present *Computer Science Department, Brown University, RI, USA*
Participated in NSF projects:"Privacy-Preserving Distributed Storage & Computation", "BIGDATA: Analytical Approaches to Massive Data Computation", "Practical Security Protocols via Advanced Data Structures", "Mapping and Querying Underground Infrastructure Systems", "Moving Objects Databases for Exploration of Virtual and Real Environments".

2009-2012 *Computational Medicine Laboratory (CML), Institute of Computer Science(ICS), Foundation for Research and Technology Hellas (FORTH), Heraklion, Crete, Greece*

2008-2009 *Telecommunications and Networks Laboratory (TNL), Institute of Computer Science(ICS), Foundation for Research and Technology Hellas (FORTH), Heraklion, Crete, Greece*

Patents

2018 *"Systems and methods for securely detecting data similarities"*, Patent No. 9942032, **E. M. Kornaropoulos** and P. Efstathopoulos

Professional Activities

Journal Reviewer: (TCS) Theoretical Computer Science - Elsevier,
(TDSC) IEEE Transactions on Dependable and Secure Computing,
(TOPS) ACM Transactions on Privacy and Security

Conference Reviewer: SIGMOD'19, NDSS'19, DSC'18, CRYPTO'17, RAID'16

Teaching Experience

Graduate Teaching Assistant in the Computer Science Departments of Brown University and University of Crete. Tasks included grading, organizing problem sets, solving problems in class and occasional lecturing.

Brown University

Fall 2018-2019 EMCS-2020 Advanced Topics in Computer Security

Fall 2017-2018 EMCS-2020 Advanced Topics in Computer Security

Fall 2016-2017 CSCI-2950-V Topics in Applied Cryptography

Spring 2015-2016 CSCI-1660 Computer Systems Security

Fall 2013-2014 CSCI-1450 Introduction to Probability and Computing

University of Crete

Fall 2011-2012	CS-583 Graph Algorithms
Spring 2010-2011	CS-583 Graph Algorithms
Fall 2010-2011	CS-240 Data Structures
Spring 2009-2010	CS-240 Data Structures
Fall 2009-2010	CS-217 Probability Theory

Honors & Awards

2013, 2016	Paris Kanellakis Fellowship
2013	Outstanding Academic Performance Scholarship from Gerondelis Foundation
2009-2011	Highest GPA in the 27-years history of the department among M.Sc. students with specialization in "Algorithms and Systems Analysis"
2010, 2011	*Graduate Scholarship* Institute of Computer Science, FORTH, Heraklion, Crete, Greece
2008, 2009	*Undergraduate Scholarship* Institute of Computer Science, FORTH, Heraklion, Crete, Greece

Extracurricular Activities

Music

2010	Professional Classical Guitar Degree Graded "Excellent" unanimously. Committee consisted of Liza Zoe, Evangelos Assimakopoulos, Theodore Antoniou (former Professor of composition at Stanford).
2005-2010	Synchronon Conservatoire of Crete Harmony, Solfege, History of Music, Genre and Form of Music, Chamber Music and advanced Classical Guitar lessons with soloist Manolis Vrontinos.
1997-2005	Hellenic Conservatory Theory of Music, Solfege, Classical Guitar lessons with soloist Yannis Yakoumakis.

References

Available upon request.