

Konstantinos Xirogiannopoulos

3226 A.V. Williams Bldg
College Park, MD 20740
kostasx@cs.umd.edu

INTERESTS I am interested in database systems, big data management, large-scale data analytics and distributed systems

EDUCATION *PhD. in Computer Science,* August 2014 - currently
University of Maryland, College Park
Advisor: Prof. Amol Deshpande

BSc. in Computer Science, Sept. 2009 - Jan. 2014
Athens University of Economics and Business
Ranked in the top 7.5% in past five years of graduates

HONORS & AWARDS

- Dean's Fellowship
University of Maryland, College Park
- Honorary Scholarship and Award for Academic and Moral distinction on first year (2009-10) *State Scholarships Foundation*
(Ranked #1 / 240)

RESEARCH EXPERIENCE *Graduate Research Assistant* June 2015 - currently
University of Maryland, College Park **Databases Lab**
Advisor: Prof. Amol Deshpande
Full-time Graduate Research Assistantship working on the followup research paper for the *GraphGen* Project.

Large-Scale Graph Extraction from Relational Datasets

- GraphGen: Efficiently and intuitively extracting graphs from relational data using a custom Domain Specific Language based on Datalog. This allows users to conduct in-memory large-scale graph analytics on their relational datasets without the need for migrating to a native graph database

Undergraduate Researcher Oct. 2012 - Sept. 2013
Athens University of Economics and Business
Thesis Title: “**Graph Databases and Big Data : Study, Overview of Existing Systems, and Sub-Graph Matching Queries Algorithm Implementation using Apache Hama Graph-Parallel Processing Framework**”
Supervisor: Prof. Yannis Kotidis

PUBLICATIONS *Demonstrations*

- Konstantinos Xirogiannopoulos, Udayan Khurana, Amol Deshpande
GraphGen: Exploring Interesting Graphs in Relational Data
VLDB 2015

INDUSTRIAL EXPERIENCE	<i>Back-End Software Engineer Intern</i> March 2014 - June 2014 Asuum GmbH based in Berlin, Germany Developed for asynchronous inter-server communication, data management, data analysis and web application back-end maintenance. <i>Technical Skills:</i> Java, Hadoop, Map-Reduce, MongoDB, ElasticSearch, Jenkins
TEACHING & MENTORING	<i>Graduate Teaching Assistant (Teaching)</i> Sept. 2014 - Dec. 2014 <i>Course:</i> CMSC132: Object Oriented Programming II <i>Instructor:</i> Larry Herman Conducted four 1-hour long discussion sections per week (approx. 35 students per section) and held 4-hours of office-hours every week for answering questions. These discussion sections included explaining concepts, doing worksheets, assigning and grading quizzes. Graded quizzes and actively participated in grading of midterms and final exams.
RECENT COURSES	<p> <i>CMSC818:Distributed and Cloud Based File Systems</i> Sept. 2014 - Dec. 2014 <i>Instructor:</i> Prof. Peter Keleher <i>Built Distributed Fault Tolerant, Durable File System from Scratch:</i> Starting from a simple in-memory file system implementation, made it persistent, and later applied and implemented distributed file systems concepts like versioning, replication and distributed consensus (Raft) and developed a fully functional, distributed file system with many guarantees. All development done in <i>Go</i> (“A”). </p> <p> <i>CMSC723:Computational Linguistics I</i> Sept. 2014 - Dec. 2014 <i>Instructor:</i> Prof. Hal Daume III <ul style="list-style-type: none"> Konstantinos Xirogiannopoulos, Kasia Hitczenko <i>Automatic Quiz-bowl Question Answering:</i> Built a classifier that classified text quiz-bowl questions to their correct answers in an automatic way. Text processing done in <i>Python</i> (“A+”). </p> <p> <i>CMSC 724: Database Management Systems</i> Feb. 2015 - May. 2015 <i>Instructor:</i> Prof. Amol Deshpande <ul style="list-style-type: none"> Konstantinos Xirogiannopoulos, Benjamin Bengfort Graph-Based Machine Learning on Relational Data (“A+”). </p> <p> <i>CMSC 734: Information Visualization</i> Feb. 2015 - May. 2015 <i>Instructor:</i> Prof. Ben Schneiderman <ul style="list-style-type: none"> Konstantinos Xirogiannopoulos, Myco Paulo, Zheng Xu, Deok Gun Park TimeGrouper: Visualizing Time Series Clustering Towards the Identification of the Contributing Factors to the Global Decay Rate of Vulnerabilities (“A”) <i>[video demo]</i> </p>
HOBBIES & INTERESTS	<i>Music</i> (Electric & Acoustic Guitar), <i>Sports</i> (Basketball [participation in town tournaments] , Swimming, Skiing), <i>Leisure</i> (Fishing, Cinema, Android OS Enthusiast, Rubiks Speedcubing [national contest participation])