

Konstantinos Xirogiannopoulos

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College Park, MD 20740
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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**
Ranked in the top 7.5% of graduates in past five years Athens University of Economics and Business

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* **Summer 2015**
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

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| INDUSTRIAL EXPERIENCE | <i>Back-End Software Engineer Intern</i> March 2014 - June 2014 <i>Asuum GmbH based in Berlin, Germany</i> 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”) </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]) |