## 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

Ranked in the top 7.5% of graduates in past five years Athens University of Economics and Business

# HONORS & AWARDS

 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

# INDUSTRIAL EXPERIENCE

### Back-End Sofware Engineer Intern

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.

Technical Skills: Java, Hadoop, Map-Reduce, MongoDB, ElasticSearch, Jenkins

## TEACHING & MENTORING

## Graduate Teaching Assistant (Teaching)

Sept. 2014 - Dec. 2014

Course: CMSC132: Object Oriented Programming II

Instructor: 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

## CMSC818:Distributed and Cloud Based File Systems Sept. 2014 - Dec. 2014

Instructor: Prof. Peter Keleher

Built Distributed Fault Tolerant, Durable File System from Scratch: Starting from a simple in- memory file system, made it persistent, and later applied and implemented distributed file systems concepts like versioning, replication and distributed consensus (Raft) and developed a fully functional, large-scale distributed file system with many guarantees. All development done in Go ("A").

## CMSC723:Computational Linguistics I

Sept. 2014 - Dec. 2014

Instructor: Prof. Hal Daume III

Automatic Quiz-bowl Question Answering: Built a classifier that classified text quiz-bowl questions to their correct answers in an automatic way. Text processing done in Python ("A+").

## CMSC 724: Database Management Systems

Feb. 2015 - May. 2015

Instructor: Prof. Amol Deshpande

• Graph-Based Machine Learning on Relational Data ("A+").

#### CMSC 734: Information Visualization

Feb. 2015 - May. 2015

Instructor: Prof. Ben Schneiderman

• 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")

## HOBBIES & INTERESTS

Music (Electric & Acoustic Guitar), Sports (Basketball [participation in town tournaments], Swimming, Skiing), Leisure (Fishing, Cinema, Android OS Enthusiast, Rubiks Speedcubing [national contest participation])