

Georgios Giannikis

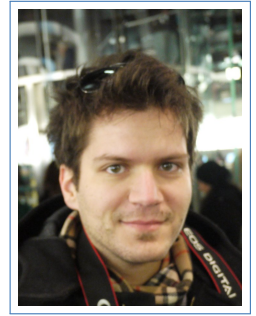
Curriculum Vitae

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Info

Date of Birth 19.08.1982

Nationality Greek

Swiss Permit C

Work Experience

- 2014 – Now **Oracle Labs, Principal Member of Technical Staff, Project RAPID**
Project RAPID is a hardware-software co-design project targeting large-scale data management and analysis. My tasks and responsibilities include:
- Design and implementation of high performance data processing algorithms.
 - Design and implementation of high performance, parallel bulk loading operation.
 - Participation in the discussions about software and hardware system specifications.
 - Participation in the discussions about efficient custom network protocols.
 - Development on x86, A9 and a custom instruction set architecture.

Education

- 2009 – 2014 **ETH Zurich, Doctor of Sciences of ETH Zurich**, Department of Computer Science, Systems Group.
Topic: “Work Sharing Data Processing Systems”.
Advisor Professor: Gustavo Alonso. Co-advisor Professor: Donald Kossmann.
- 2007 – 2009 **ETH Zurich, Master of Science in Computer Science.**
Master Thesis Topic: “Daedalus: A Distributed Crescendo System”.
Supervising Professor: Gustavo Alonso.
- 2000 – 2006 **University of Patras, Greece, Diploma in Electrical & Computer Engineering.**
Major in Computer Science. Diploma Thesis Topic: “Optimization of Cache Memory Arrays using Cache Decay Techniques”. Supervising Professor Stefanos Kaxiras.

Experience

- 2009 – 2014 **ETH Zurich, Research & Teaching Assistant**, Zurich, Switzerland, Department of Computer Science, Systems Group.
Research Topics: Distributed Systems, Database Design, Systems Design & Architecture, Systems on Cloud, Data Processing, Systems on Modern Hardware.
Teaching Topics:
Parallel Programming, ETH Zurich, Department of Computer Science, 2014
Advanced Systems, ETH Zurich, Department of Computer Science, 2010–2013
Operating Systems and Networks, ETH Zurich, Department of Computer Science, 2010, 2013
- 2011 **Amazon.com, Software Development Engineer Intern**, Seattle WA, USA.
Topic: “Amazon’s DynamoDB”. Responsible for the storage layer of DynamoDB.
- 2009 **Amadeus IT Group, Software Development Engineer Intern**, Sophia Antipolis, France. Department of Development, Reservation & Distribution. Responsible for the design and implementation of a new database engine for airline passenger data.

2000 – 2006 **University of Patras, Research Assistant**, Greece.
Department of Mechanical Engineering & Aeronautics, Lab for Manufacturing Systems & Automation. Development of international & EU projects. Web programming using .NET, J2EE, Oracle Forms and BPEL.

Patents

- August 2012 **United States Patent and Trademark Office, US/2012/0197868/A1**
Topic: “Continuous Full Scan Data Store Table And Distributed Data Store Featuring Predictable Answer Time For Unpredictable Workload”.
- March 2011 **World Intellectual Property Organization, WO/2011/023651/A1**
Topic: “Segmented main-memory stored relational database table system with improved collaborative scan algorithm”.

Selected Publications

- 2014 **Shared Workload Optimization**
Proceedings of the VLDB Endowment, vol. 9, no. 6.
- 2014 **Shared Workload Optimization**
Proceedings of the VLDB Endowment, vol. 7, no. 6.
- 2014 **Work Sharing Data Processing Systems**
PhD Thesis, ETH Zurich.
- 2012 **SharedDB: Killing One Thousand Queries With One Stone**
Proceedings of the VLDB Endowment, Vol. 5, No. 6.
- 2009 **Daedalus: a Distributed Crescendo System**
Department of Computer Science, ETH Zurich, Switzerland.
- 2009 **Predictable Performance for Unpredictable Workloads**
Proceedings of the VLDB Endowment, vol. 2, no. 1.

Computer Skills

Operating Systems

Windows (*excellent*), Linux (*excellent*), HP-UX (*excellent*), SGI-Unix (*good*).

Programming Languages

Java + JNI (*excellent*), C/C++ (*excellent*), PHP (*excellent*), Python (*good*).

Web Programming

3 years hands-on experience on .NET, J2EE, Oracle Forms, Web Services, BPEL.

Language Skills

English: Excellent, Holder of Michigan Proficiency Certificate (C2)

German: Good, Holder of Zertifikat Deutsch (B1)

Greek: Mother Tongue

Distinctions

- 2007 ETH Zurich, Excellence Scholarship for Master Programme.
- 1997 10th Prize at the National Greek Mathematics Competition.

Interests and Hobbies

Photography, Basketball, Skiing, Travelling, Computer Games, Logical Puzzles.

References available upon request.