

# Georgios Giannikis

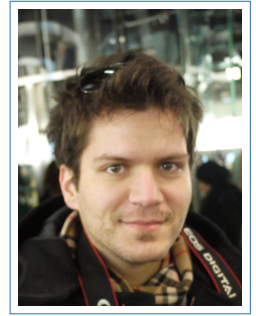
## Curriculum Vitae

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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.

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## 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”.

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## Selected Publications

- 2016 **MQJoin: efficient shared execution of main-memory joins**  
*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.*

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## 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.

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## Language Skills

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

**German:** Good, Holder of Zertifikat Deutsch (B1)

**Greek:** Mother Tongue

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## Distinctions

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

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## Interests and Hobbies

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

*References available upon request.*