

Thaleia Dimitra Doudali

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EDUCATION

- [2015-present] **Ph.D. in Computer Science**
Georgia Institute of Technology, Atlanta, GA, USA GPA: 3.83/4.00
Advisor: Ada Gavrilovska
Research: Data management solutions for systems with hybrid memory components.
- [2010-2015] **Diploma in Electrical and Computer Engineering** (5-year degree)
National Technical University of Athens, Athens, Greece
Advisor: Nectarios Koziris
Thesis: Design and implementation of Spaten, a spatio-temporal and textual Big Data generator.

PUBLICATIONS

- Unexpected Performance of Intel DC Persistent Memory. Tony Mason, [Thaleia Dimitra Doudali](#), Margo Seltzer, Ada Gavrilovska. IEEE Computer Architecture Letters (CAL). Accepted 2020.
- **Kleio: a Hybrid Memory Page Scheduler with Machine Intelligence.** [Thaleia Dimitra Doudali](#), Sergey Blagodurov, Abhinav Vishnu, Sudhanva Gurumurthi and Ada Gavrilovska. In The 28th International Symposium on High-Performance Parallel and Distributed Computing (HPDC '19), June 22–29, 2019, Phoenix, AZ, USA. ACM, New York, NY, USA. 12 pages.
[Best Paper Award Finalist. Best PhD Forum Poster with Research Paper Award.](#)
- **Mnemo: Boosting Memory Cost Efficiency in Hybrid Memory Systems.** [Thaleia Dimitra Doudali](#) and Ada Gavrilovska. In proceedings of the 5th IEEE International Workshop on High-Performance Big Data, Deep Learning, and Cloud Computing (HPBDC 2019). In conjunction with the 33rd IEEE International Parallel and Distributed Processing Symposium (IPDPS 2019). Rio de Janeiro, Brazil, May 2019.
- **CoMerge: Toward Efficient Data Placement in Shared Heterogeneous Memory Systems.** [Thaleia Dimitra Doudali](#) and Ada Gavrilovska. In Proceedings of MEMSYS 2017, Alexandria, VA, USA, October 2–5, 2017, 11 pages.
- **Spaten: a Spatio-temporal and Textual Big Data Generator.** [Thaleia Dimitra Doudali](#), Ioannis Konstantinou, Nectarios Koziris. In proceedings of the 2017 Big Spatial Data Workshop (BSD 2017 in conjunction with IEEE BigData 2017), Boston, MA, USA December 11-14 2017.

TEACHING EXPERIENCE

[Spring 2017, Spring 2019] *Teaching Assistant - Georgia Tech*

Designed and graded projects, interacted with students during office hours and online discussions for the Advanced Operating Systems class (CS6210).

TALKS

- [Feb 2020] Kleio: a Hybrid Memory Page Scheduler with Machine Intelligence. At Grascomp/EuroSys Shadow PC joint workshop at UC Louvain, Belgium.
- [Jan 2020] Kleio: a Hybrid Memory Page Scheduler with Machine Intelligence. At the 5th Computing Systems Research day at NTUA, Greece.

SERVICE

- EuroSys 2020 Shadow PC

TRAVEL GRANT AWARDS

- CRA-W Grad Cohort '17, Department of Energy Salishan Conference '18.
- IEEE TCPP award for IPDPS '19, ACM SoCC '18, Usenix ATC '17, Usenix OSDI '16.

FELLOWSHIPS

- [2018-2020] Gerondelis Foundation, A.G. Leventis Foundation.

WORK EXPERIENCE

- [Summer 2018] **Internship at AMD Research.**
Mentor: Sergey Blagodurov, Manager: Andrew Kegel
Project: Design of Kleio, a hybrid memory page scheduler with machine intelligence.
- [Summer 2017] **Internship at VMware.**
Mentor: Zhelong Pan, Manager: Lan Gao
Part of the CPBU Palo Alto - Distributed Resource Scheduler Team.
Project: Design of a two-stage scheduler that enables efficient resource management of kubernetes containers deployed across virtual machines.
- [Summer 2016] **Internship at Dell EMC.**
Mentor: Abhinav Duggal, Manager: Aseem Vaid
Part of the Data Domain File System - Garbage Collection team.
Project: Develop techniques that group similar files, implementing clustering algorithms and similarity estimations on a deduplication dataset.

PATENTS

- Computer Resource Scheduling Using Generative Adversarial Networks.
Sergey Blagodurov, Abhinav Vishnu, [Thaleia Dimitra Doudali](#), Jagadish B. Kotra
USPTO Application No. 16/425,878
- Multi-instance Recurrent Neural Network Prediction.
Sergey Blagodurov, [Thaleia Dimitra Doudali](#), Amin Farmahini Farahani
USPTO Application No. 16/220,462
- Techniques for Container Scheduling in a Virtual Environment.
[Thaleia Dimitra Doudali](#), Zhelong Pan, Pranshu Jain
USPTO Application No. 16/034,126

SKILLS

Programming experience in: C/C++, Python, Matplotlib, Java, OpenMP/MPI, R, Memcached, Hadoop, Spark, HBase, SQL, HTML, Qemu/KVM.

EXTRACURRICULAR

- [2017-Present] Hellenic Society at Georgia Tech, board member.
- [2017-Present] Georgia Tech Computer Science PhD Visit Days, student volunteer.
- [2012-2015] IEEE NTUA Student Branch, member.
- [Fall 2009] Greek Youth Parliament, member.