

Panagiotis Repouskos

MSC STUDENT · DEPARTMENT OF INFORMATICS AND TELECOMMUNICATIONS, UNIVERSITY OF ATHENS

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Education

Department of Informatics and Telecommunications, University of Athens

Athens, Greece

MSC IN COMPUTER SCIENCE

Current

Department of Informatics and Telecommunications, University of Athens

Athens, Greece

BSC IN COMPUTER SCIENCE

June 2018

- Thesis: "The Dataflow Computational Model and its Evolution",
Supervisor: Panagiotis Rondogiannis.

Experience

Google Summer of Code 2020

Athens, Greece

MENTOR

Summer 2020

ORGANIZATION: GeomScale

Google Summer of Code 2019

Athens, Greece

INTERN

Summer 2019

- **PROJECT:** Sampling Methods for Convex Optimization
- **ORGANIZATION:** R Project for Statistical Computing
- **MENTORS:** Dr Vissarion Fisikopoulos, Dr, Elias Tsigaridas
- **GOAL:** Implement in C++ randomized algorithms, which make use of sampling methods to solve linear and semidefinite programs. Last, build an interface to expose the developed methods in R language.
- **URL:** <https://panagiotisrep.github.io/gsoc2019/gsoc2019>

Department of Informatics and Telecommunications, University of Athens

Athens, Greece

TEACHING ASSISTANT, AS BSC AND MSC STUDENT

- Theory of Computation, 2017-2018, professor Panagiotis Rondogiannis.
- Principles of Programming Languages, 2017-2018, professor Panagiotis Rondogiannis.
- Algorithms and Complexity, 2017-2018, professor Misirlis Nikolaos
- Theory of Computation, 2018-2019, professor Panagiotis Rondogiannis
- Principles of Programming Languages, 2018-2019, professor Panagiotis Rondogiannis
- Laboratory Instructor at Introduction to Programming, 2018-2019, professor Stamatopoulos Panagiotis

Municipality of Elefsina

Elefsina Greece

VOLUNTEER TEACHING

Sep. 2018 - May 2019

- Teaching high school math as a volunteer, in accordance to Municipality of Elefsina's program, aimed in providing gratuitous cram school services.

Self Employed

Athens, Greece

FREELANCE WEB DEVELOPER

- Build e-shops.
- Private tutoring for high school students (math and programming).

Software

GeomScale

CONTRIBUTOR

GeomScale is an open-source C++ software that offers practical volume computation and sampling in high dimensions.

Git: https://github.com/GeomScale/volume_approximation

Contributions:

- Use the Eigen library for linear algebra operations. It offers a speedup in volume computation and sampling of a factor of at least 2, depending on the algorithm.
- Provide support for spectrahedra; previously only polyhedra were supported.
- Implement a randomized algorithm for semidefinite programming.

Presentations

Publications

Sampling the feasible sets of SDPs and volume approximation*Under conference submission*

APOSTOLOS CHALKIS, VISSARION FISIKOPOULOS, PANAGIOTIS REPOUSKOS, ELIAS TSIGARIDAS

February 2020

<https://hal.inria.fr/hal-02572792/document>

Skills

Programming

- Scientific Software, Object Oriented Programming, Logic Programming, Functional Programming
- C/C++, Java, PHP, JavaScript · Advanced
- Maple, R, Prolog, Haskell, Python · Medium
- Spark (Java), FastAPI (Python), Laravel (PHP), MPI, OpenMP

Languages

- Greek · Native
- English · Proficient User
- German, French · Independent User