Leonidas Tsepenekas

Curriculum Vitae

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Research Interests

Main Topics: Approximation and Randomized Algorithms, Combinatorial and Stochastic Optimization, Clustering and Facility Location Problems, Algorithmic Fairness.

Education

08/2017- University of Maryland, College Park, PhD in Theoretical Computer Science,

12/2022 Graduate courses: Applied Mechanism Design for Social Good, Advanced Algorithms,

(Expected) Quantum Information Processing, Complexity Theory, Approximation Algorithms,

Machine Learning and Algorithms for Analyzing Mutations in Cancer, Algorithms in Machine Learning: Guarantees and Analyses, Advanced Numerical Optimization.

10/2010- National Technical University of Athens (NTUA), Athens, Greece.

09/2016 • BSc & MSc in Electrical and Computer Engineering (5-year joint degree, 300 ECTS)

- Grade: 8.84/10 (top 5% of my class)

- Grade in major: 9.456/10

o Thesis: "Approximation Algorithms for Scheduling Malleable Jobs".

2010 **High School Graduation**, 14th High School of Peristeri.

Nationwide University Entrance Examination Score: 19.375/20.000, the highest among all students of the school, top 1% nationwide.

Teaching Experience

2015-2017 Computer Programming and Algorithms and Complexity courses at NTUA

Fall 2017 Teaching assistant at UMD for CMSC 351: Introduction to Algorithms

Spring 2018 Teaching assistant at UMD for CMSC 351: Introduction to Algorithms

Summer 2018 Teaching assistant at UMD for CMSC 250: Discrete Mathematics

Fall 2018 Teaching assistant at UMD for CMSC 351: Introduction to Algorithms

Spring 2019 Teaching assistant for CMSC 451: Design and Analysis of Computer Algorithms

Reviewing Experience

- 2018 TALG-2018, ACM Transactions on Algorithms.
- 2021 **ICML-2021**, International Conference on Machine Learning.
- 2021 NeurIPS-2021, Conference on Neural Information Processing Systems.

Work Experience

05/2019— **Research Intern**, University of Virginia Biocomplexity Institute and Initiative. Su-08/2019 pervised by Anil Vullikanti.

Publications

- 2016 Improving Scheduling Of Data Transmission In Tdma Systems, *T. Aslanidis, L. Tsepenekas,* (ICAIT).
- 2016 Message Routing in Wireless and Mobile Networks Using TDMA Technology, T. Aslanidis, L. Tsepenekas, International Journal of Wireless & Mobile Networks.
- 2019 A Unified Approach to Online Matching with Conflict-Aware Constraints, P. Xu, Y. Shi, H. Cheng, J.P. Dickerson, K.A. Sankararaman, A. Srinivasan, Y. Tong, L. Tsepenekas, AAAI.
- 2020 A Pairwise Fair and Community-preserving Approach to k-Center Clustering, B. Brubach, J.P. Dickerson, S. Khuller, A. Srinivasan, L. Tsepenekas, ICML.
- 2020 **Probabilistic Fair Clustering**, S.A. Esmaeili, B. Brubach, L. Tsepenekas, J.P. Dickerson, NeurlPS.
- 2021 Fairness, Semi-Supervised Learning, and More: A General Framework for Clustering with Stochastic Pairwise Constraints, B. Brubach, J.P. Dickerson, A. Srinivasan, L. Tsepenekas, AAAI.
- 2021 Approximating Two-Stage Stochastic Supplier Problems, B. Brubach, N. Grammel, D. Harris, A. Srinivasan, L. Tsepenekas, A. Vullikanti, APPROX.
- 2022 Deploying Vaccine Distribution Sites for Improved Accessibility and Equity to Support Pandemic Response, G. Li, A. Li, M. Marathe, A. Srinivasan, L. Tsepenekas, A. Vullikanti, AAMAS.
- 2022 **A New Notion of Individually Fair Clustering:** α -**Equitable** k-**Center**, D. Chakrabarti, J.P. Dickerson, S.A. Esmaeili, A. Srinivasan, L. Tsepenekas, AISTATS.
- 2022 **Fair Disaster Containment via Graph-Cut Problems**, *M. Dinitz, A. Srinivasan, L. Tsepenekas, A. Vullikanti*, AISTATS.
- 2022 Controlling Epidemic Spread using Probabilistic Diffusion Models on Networks, A. Babay, M. Dinitz, A. Srinivasan, L. Tsepenekas, A. Vullikanti, AISTATS.

Honors and Awards

Eurobank "A great moment for education".

For graduating with the highest score in my high school

University of **Dean's Fellowship**.

Maryland

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Foundation

Gerontelis **Graduate Studies Scholarship**.

Programming & Computer skills

Programming C/C++, Python, Java, Haskell, ML, Prolog, PHP, SQL, OpenMP, MPI, CUDA Skills Linux/Unix, Windows, LATEX, GNUplot, Wireshark

Languages

Greek Native English Fluent