# Leonidas Tsepenekas

Curriculum Vitae

Iribe Center 2108, UMD, College Park, MD - 20742 © 240 527 3818 ⊠ ltsepene@umd.edu " Itsepene.com

#### Research Interests

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

# Education

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

05/2023 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**, 14<sup>th</sup> 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.
- 2022 AISTATS-2022, International Conference on Artificial Intelligence and Statistics.

### Work Experience

- 05/2019— **Research Intern**, University of Virginia Biocomplexity Institute and Initiative. Su-08/2019 pervised by Anil Vullikanti.
- 06/2022— **AI Summer Research Associate**, *JPMorgan Chase & Co. Supervised by Ivan* 08/2022 *Brugere*.

#### **Publications**

- 2016 Improving Scheduling Of Data Transmission In Tdma Systems, *T. Aslanidis, L. Tsepenekas*, (Alphabetic Order), (ICAIT).
- 2016 Message Routing in Wireless and Mobile Networks Using TDMA Technology, T. Aslanidis, L. Tsepenekas, (Alphabetic Order), 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, (Alphabetic Order), 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, (Alphabetic Order), AAAI.
- 2021 Approximating Two-Stage Stochastic Supplier Problems, B. Brubach, N. Grammel, D. Harris, A. Srinivasan, L. Tsepenekas, A. Vullikanti, (Alphabetic Order), 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, (Alphabetic Order), AAMAS. Best Student Paper Award
- 2022 **A New Notion of Individually Fair Clustering:**  $\alpha$ -**Equitable** k-**Center**, D. Chakrabarti, J.P. Dickerson, S.A. Esmaeili, A. Srinivasan, L. Tsepenekas, (Alphabetic Order), AISTATS.
- 2022 **Fair Disaster Containment via Graph-Cut Problems**, *M. Dinitz, A. Srinivasan, L. Tsepenekas, A. Vullikanti*, (Alphabetic Order), AISTATS.
- 2022 Controlling Epidemic Spread using Probabilistic Diffusion Models on Networks, A. Babay, M. Dinitz, A. Srinivasan, L. Tsepenekas, A. Vullikanti, (Alphabetic Order), AISTATS.
- 2022 Comparing Apples to Oranges: Learning Similarity Functions for Data Produced by Different Distributions, I. Brugere, L. Tsepenekas, (Alphabetic Order), Working Paper.

#### Tutorials

2021 Co-organized tutorial on Fair Clustering, which was presented at AAAI 2021.

Check fairclustering.com

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

Gerontelis Graduate Studies Scholarship.

Foundation

University of Ann G. Wylie Dissertation Fellowship.

Maryland

Programming & Computer skills

Programming C/C++, Python, Java, Haskell, ML

Skills Linux/Unix, Windows, LATEX

Languages

Greek Native

English Fluent