

# Leonidas Tsepenekas

## Curriculum Vitae

Iribe Center 2108, UMD, College Park, MD - 20742

☎ 240 527 3818

✉ [ltsepene@umd.edu](mailto:ltsepene@umd.edu)

🌐 [ltsepene.com](http://ltsepene.com)

## Research Interests

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

## Education

08/2017–  
05/2023 (Expected) **University of Maryland, College Park, PhD in Theoretical Computer Science,**  
Graduate courses: Applied Mechanism Design for Social Good, Advanced Algorithms, 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
  - 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*.  
2021 **AISTATS-2021**, *International Conference on Artificial Intelligence and Statistics*.

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## Work Experience

05/2019–08/2019 **Research Intern**, *University of Virginia Biocomplexity Institute and Initiative*. Supervised by Anil Vullikanti.

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## 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. Esmaili, B. Brubach, L. Tsepenekas, J.P. Dickerson*, NeurIPS.
- 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. Gammell, 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, Best Student Paper Award.
- 2022 **A New Notion of Individually Fair Clustering:  $\alpha$ -Equitable  $k$ -Center**, *D. Chakrabarti, J.P. Dickerson, S.A. Esmaili, 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.

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## Honors and Awards

Eurobank **"A great moment for education"**.  
For graduating with the highest score in my high school

University of Maryland **Dean's Fellowship**.

Gerontelis Foundation **Graduate Studies Scholarship**.

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## Programming & Computer skills

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

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## Languages

Greek Native  
English Fluent