# 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–Present **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.

10/2010–09/2016 **National Technical University of Athens (NTUA)**, *Athens*, Greece.

- 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**, $14^{th}$ *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

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

## Publications

2016 **Improving Scheduling Of Data Transmission In Tdma Systems**, *T. Aslanidis, L. Tsepenekas*, (ICAIT 2016).

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 2019.

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*, 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. Grammel, D. Harris, A. Srinivasan, L. Tsepenekas, A. Vullikanti*, APPROX.

Under Review **A New Notion of Individually Fair Clustering: $\alpha$-Equitable $k$-Center**, *D. Chakrabarti, J.P. Dickerson, S.A. Esmaeili, A. Srinivasan, L. Tsepenekas.*

Under Review **Fair Disaster Containment via Graph-Cut Problems**, *A. Babay, M. Dinitz, P. Sambaturu, A. Srinivasan, L. Tsepenekas, A. Vullikanti.*

## 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**.

## 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