

# Alexia Atsidakou

Department of Electrical & Computer Engineering  
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## Research interests

Online Machine Learning, Statistical Optimization, Algorithms, Multi-Armed Bandits.

## Education

**University of Texas at Austin** Austin, TX  
PhD Candidate in Electrical and Computer Engineering 2020 – Today  
Supervisors: Constantine Caramanis, Sujay Sanghavi

**National Technical University of Athens** Athens, Greece  
BSc in Electrical and Computer Engineering 2014 – 2019  
Supervisor: Georgios Stamou  
GPA: 9.46/10

## Professional Experience

**Amazon Science** Palo Alto, CA  
Applied Scientist Intern 2022  
Supervisors: Branislav Kveton, Sumeet Katariya

**National Center for Scientific Research “Demokritos”** Athens, Greece  
Research Intern 2019 - 2020  
Supervisor: Alexander Artikis

## Publications

**Finite-Time Logarithmic Bayes Regret for Thompson Sampling**  
with B. Kveton, S. Katarya, S. Sanghavi, C. Caramanis.  
*arXiv pre-print.*

**Bayesian Fixed-Budget Best-Arm Identification**  
with S. Katarya, S. Sanghavi, B. Kveton.  
*arXiv pre-print.*

**Contextual Pandora’s Box**  
with E. Gergatsouli, O. Papadigenopoulos, C. Caramanis, C. Tzamos.  
*AAAI Conference on Artificial Intelligence (AAAI) 2024.*

**Finite-Time Logarithmic Bayes Regret Upper Bounds**  
with B. Kveton, S. Katarya, S. Sanghavi, C. Caramanis.  
*Conference on Neural Information Processing Systems (NeurIPS) 2023.*

**Asymptotically-Optimal Gaussian Bandits with Side Observations**  
with O. Papadigenopoulos, C. Caramanis, S. Sanghavi, S. Shakkottai.  
*International Conference of Machine Learning (ICML) 2022.*

**Towards Statistical and Computational Complexities of Polyak Step Size Gradient Descent**

with F. Cui, T. Ren, S. Sanghavi, N. Ho.  
*Artificial Intelligence and Statistics (AISTATS) 2022.*

**Combinatorial Blocking Bandits with Stochastic Delays**  
with O. Papadigenopoulos, S. Basu, C. Caramanis, S. Shakkottai.  
*International Conference of Machine Learning (ICML) 2021.*

**Parallel Model Exploration for Tumor Treatment Simulations**  
with C. Akasiadis, M.P.D. Leon, A. Montagud, E. Michelioudakis, E. Alevizos,  
A. Artikis, A. Valencia, G. Paliouras.  
*Computational Intelligence Journal 2021.*

## Skills

### Programming

Python, C/C++, R, MATLAB, Java, Scikit-Learn, TensorFlow, NumPy, Pandas.

### Languages

English (fluent), Greek (native), Italian (advanced)

## Awards

**Onassis Foundation Scholarship** 2023  
For the academic year 2023-2024.

**Leventis Foundation Scholarship** 2023  
For the academic year 2023-2024.

**Cadence “Women in Technology” Award** 2021  
Distinction between women in technological fields.

**Gerondelis Foundation Scholarship** 2021  
Scholarship for the academic year 2021-2022.

**Cockrell School of Engineering Award** 2020  
Awarded to students in engineering departments of UT Austin.

**Google HashCode Programming Competition** 2018  
1st place in Greece.

**Eurobank Undergraduate Grant** 2014  
For the highest score in the university entrance exams in high school.

## Teaching experience

**Teaching assistant, ECE Department (UT Austin)** Fall 2020  
Algorithms (EE 360C)

**Teaching assistant, ECE Department (NTUA)** Fall 2018  
Computer Programming