Nikolaos Tsilivis

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EDUCATION

National Technical University of Athens

Athens, Greece

Diploma in Electrical and Computer Engineering (5-year degree, BSc & MSc equivalent)

Oct. 2014 - Apr. 2021

Major: Computer Science, Signals, Control Theory

GPA: 8.88/10 (top 7%)

Minor: Mathematics

Thesis: Sparse Representations in Tropical Mathematics, advisor: Prof. Petros Maragos

KTH Royal Institute of Technology

High School of Ionios Sxoli

Stockholm, Sweden Jan. 2018 - May 2018

Exchange studies under the fellowship of EU, Erasmus

Filothei, Athens, Greece

Excellence in 2014 Nationwide University Entrance Examination

19.375/20.000 units (top 1%)

Experience

Research Assistant at CVSP lab, NTUA

Dec. 2019 – Present

Advanced the theory of sparsity in tropical mathematics and investigated ties with applications

Private Tutor

Nov. 2017 – Sep. 2020

Research Assistant & Junior Developer at FSU, NTUA

Dec. 2015 – Apr. 2016

Developed a web observatory of Twitter analytics for movie recommendations

Mathematics and Computer science lessons to high school and university students

Research Interests

Deep Learning, Theoretical Machine Learning, Optimization, Statistical Learning Theory, Nonlinear Algebras, Lattices, Theory of Computation

Related Graduate Coursework

Computer Vision, Neural Networks, Speech and Natural Language Processing, Digital Signal Processing, Stochastic Processes, Measure Theory, Lambda Calculus, Algorithms & Complexity, Computability & Complexity, Advanced Algorithms, Information Theory, Neuro-Fuzzy Control and Applications, Queuing Theory (KTH), Pattern Recognition & Machine Learning (KTH)

Publications

- 1. TSILIVIS, N., TSIAMIS, A., AND MARAGOS, P. Sparse Approximate Solutions to Max-Plus Equations, to appear. In IAPR International Conference on Discrete Geometry and Mathematical Morphology (DGMM) 2021 (2021), paper
- 2. TSILIVIS, N., TSIAMIS, A., AND MARAGOS, P. Sparsity in Max-plus Algebra and Applications in Multivariate Convex Regression, to appear. In 2021 IEEE International Conference on Acoustics, Speech and Signal Processing (2021), paper

Presentations

Courcelle's theorem Semester-long project on a famous algorithmic meta-theorem, slides	Feb. 2020
$\label{eq:automatic} \text{Automatic Data Augmentation} \mid \textit{A survey on recent, automatic, data augmentation techniques}, \textbf{slides}$	Oct. 2019
Godel's System T \mid Part of weekly-lectures on Lambda Calculus course	Mar. 2019

Programming Skills

Languages: Python, C/C++, Java, ML, Prolog

Other: pytorch, matlab, latex

Languages

Greek (native), English (proficient)