Emmanouil Theodosis

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Research Interests Theoretical machine learning, nonlinear algebras, sparse representations, algebraic geometry, digital signal processing, probabilistic graphical models, graph theory

EDUCATION

Harvard University

September 2019 - May 2024

PhD in Computer Science

National Technical University of Athens October 2012 - October 2018 BSc & MSc in Electrical and Computer Engineering (5-year joint degree; 300 ECTS)

• **GPA**: 8.56/10 (top 10%)

• Major: Computer Science

• Related Courses: Pattern Recognition, Natural Language Processing, Digital Signal Processing, Computer Vision, Algorithms and Complexity, Compilers

• Thesis: "Tropical Analysis of Algorithms on Graphs" Supervisor: Prof. Petros Maragos

Nea Genia Ziridis, Spata, Greece

September 2006 - June 2012

High school diploma

• Grade: 20/20 (excellent)

Research EXPERIENCE National Technical University of Athens

October 2018 - June 2019

Computer Vision, Speech Communication, and Signal Processing Lab (CVSP)

Research Assistant

PUBLICATIONS

[1] THEODOSIS, E., AND MARAGOS, P. Analysis of the Viterbi Algorithm Using Tropical Algebra and Geometry. In International Workshop on Signal Processing Advances in Wireless Communications (2018)

[2] THEODOSIS, E., AND MARAGOS, P. Tropical Modeling of Weighted Transducer Algorithms on Graphs. In International Conference on Acoustics, Speech, and Signal Processing (2019)

[3] THEODOSIS, E., AND MARAGOS, P. A Robust Adaptive Pruning Algorithm based on Tropical Geometry. In European Signal Processing Conference (2019) (Under review)

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Honors and AWARDS

IEEE Xtreme

Google CodeJam

October 2017

Ranked 161st amongst over 4000 teams (top 5%).

Codechef SnackDown

July 2017

April 2017

Ranked 615th amongst over 17000 teams (top 5%).

Ranked in the top 3000 amongst over 65000 people (top 5%).

Google HashCode

Ranked 170th amongst over 3500 teams (top 5%).

February 2017

Achieved the highest score at the national exams amongst students of Nea Genia Ziridis.

Projects

SIP VoIP Application ©

Fall 2016

A VoIP application based on the Session Initiation Protocol. Developed jointly with 3 other students for a course on software engineering.

Prescriptions R-X Application •

Fall 20

A database in MariaDB along with a user interface in HTML/CSS for a fictitious company. Developed for a course on database management systems.

Edsger Compiler 🖸

Summer 2016

A compiler for a fictitious C-like language called Edsger. Developed jointly with one other student for a course on compilers.

Greeklish to Greek Translator 🖸

Fall 2015

A translator and spellchecker application that converts text from greeklish (Greek using Latin characters) to Greek. Developed for a course on natural language processing.

Online Learning

Coursera, 22 courses

February 2015 - Present

- Machine Learning Specialization, University of Washington (4 courses)
- Fundamentals of Computing Specialization, Rice University (7 courses)
- Data Science at Scale Specialization, University of Washington (2 courses)
- Machine Learning, Stanford University
- Neural Networks and Deep Learning, deeplearning.ai
- Intro to RecSys: Non-Personalized and Content-Based, University of Minnesota
- Bayesian Statistics: From Concept to Data Analysis, UC Santa Cruz

A complete list of all the courses and their certificates can be found here.

COMMUNITY SERVICE

The Smile of the Child, Volunteer

September 2015 - Present

- Set up/take down event spaces.
- Participate at events as a seller.
- Tutor children on math and physics.

Coursera, Mentor

May 2017 - Present

- Answer students' questions about machine learning in the forums.
- Help students who are struggling with the assignments.

Programming Skills Languages: Python, MATLAB, C, HTML/CSS, Java, OCaml

Other: LATEX, Unix, Git

LANGUAGES Greek (Native), English (Fluent), French (Basic)

Personal Interests Sailing, Soccer, Poetry, Writing