

Argyrios Gerogiannis

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Research Interests

- **Reinforcement Learning:** Inverse, Nonstationary and Robust Reinforcement Learning.
- **Multi-Armed Bandits:** Nonstationary Multi-Armed Bandits.
- **Machine Learning:** Deep Learning for Reinforcement Learning applications.

Relevant Coursework

- MDPs & Reinforcement Learning (ECE586*)
- Machine Learning (ECE_CK812[†])
- Pattern Recognition (ECE_AK808[†])
- Random Processes (ECE534*)
- Intro to Optimization (ECE490*)
- Artificial Intelligence (ECE_AK705[†])

*: at the University of Illinois Urbana-Champaign

[†]: at the University of Patras

Education

University of Illinois at Urbana Champaign (UIUC)

Urbana-Champaign, Illinois, USA

PhD in Electrical and Computer Engineering (ECE)

Aug. 2022 - Present

- Cumulative GPA: 4.00/4.00
- Advisor: Prof. Venugopal Veeravalli 🎓

University of Patras

Patras, Greece

Diploma (BSc+MEng) in Electrical and Computer Engineering (ECE)

Sep. 2017 - Aug. 2022

- Cumulative GPA: 9.69/10.00 (first of my class; top 10 in the department's history)
- Advisor: Prof. George Moustakides 🎓
- Thesis: Inverse Reinforcement Learning

Honors & Awards

Dilip and Sandhya Sarwate Graduate Fellowship

2022-2023

Awarded to outstanding incoming graduate students in the area of communications.

UIUC, USA

University Student Excellence Award

2022-2023

Awarded to the student with the highest GPA among all 2021-2022 graduates of the ECE department.

University of Patras, Greece

Student Excellence Award

2022-2023

Awarded to the student with the highest GPA among all 2021-2022 graduates of each department.

State Scholarships Foundation, Greece

Excellence Award

2011-2017

Awarded to high school students who demonstrate excellent performance in their studies.

Ministry of Education and Religious Affairs, Greece

Selected Projects

Reinforcement Learning for Partially Observable Markov Decision Processes

UIUC, USA

Research Project

2022-present

- Adarsh Subramaniam, Argyrios Gerogiannis, Venugopal Veeravalli

A Framework for Nonstationary Multi-Armed Bandits

UIUC, USA

Research Project

2023-present

- Yu-Han Huang, Nathan Dahlin, Argyrios Gerogiannis, Venugopal Veeravalli, Subhonmesh Bose

Data-Driven Computation of Conditional Expectations and Applications

University of Patras, Greece

Research Project (working towards publication)

2021-2022

- George Moustakides, Argyrios Gerogiannis, Kristi Topollai

Cracking the Sudoku puzzle, Linear Integer Programming methods versus Neural Network approximations

University of Patras, Greece

Course Project: Linear and Combinatorial Optimization

2021

Image restoration with Generative Adversarial Networks, Denoising and Super Resolution

University of Patras, Greece

Course Project: Data Processing and Learning Algorithms

2021

Neural network approximations for Detection and Estimation methods

University of Patras, Greece

Course Project: Data Processing and Learning Algorithms

2021

Work Experience

Graduate Research Assistant

Urbana-Champaign, Illinois, USA

University of Illinois at Urbana-Champaign

Aug. 2022 - present

- Graduate Research Assistant for the WV Group of the Coordinated Science Laboratory.

Private Tutor

Patras, Greece

Freelancer

Dec. 2017 - Jul. 2020

- Gave lectures and tutored high school students in preparation for the national exams. Taught courses in Mathematics, Physics, Chemistry and Algorithms & Data Structures.

Programming Skills

Programming Languages (Excellent) Python, C, Matlab

Programming Languages (Familiar with) C++, Java

Auto-Differentiation Frameworks PyTorch, TensorFlow, Keras


Other Interests

- Video Games
- Manga, Manhwa
- Anime
- Cooking
- Music
- Bouzouki (Greek traditional musical instrument)

Languages

- Greek (native)
- English (fluent)

References

- **Professor Venugopal Veeravalli** - University of Illinois at Urbana-Champaign 
- **Professor George Moustakides** - University of Illinois at Urbana-Champaign 