

Konstantinos Emmanouilidis

[Website](#)
[Email](#)
[Linkedin](#)

RESEARCH INTERESTS

Foundations of AI and machine learning, (Multi-agent) Optimization, Game Theory, Theoretical Computer Science

EDUCATION

- **Johns Hopkins University (JHU)** 05/2024 - current
PhD Candidate, Department of Computer Science
Advisors: Nicolas Loizou, Rene Vidal (UPenn)
- **Johns Hopkins University (JHU)** 08/2022 - 05/2024
Master in Computer Science
- **Democritus University Of Thrace (DUTH)** 10/2016 - 07/2021
BSc & MSc in Electrical and Computer Engineering
 - Grade: 9.51 / 10.00 (top 0.001% in university's history)
 - Advisor: Pavlos Efraimidis

HONORS & AWARDS

- **JHU Mathematical Institute for Data Science, Spring 2024 Fellowship** 01/2024
- **JHU Mathematical Institute for Data Science, Summer 2023 Fellowship** 02/2023
- **IEEEExtreme 14.0 Programming Competition, top 10% worldwide** 10/2020
- **International Mathematical Competition (IMC), Bronze Medal** 07/2019
- **South Eastern European Mathematical Olympiad (SEEMOUS), Bronze Medal** 03/2019
- **IEEE Region 8 Acceleration Entrepreneurship Program, 1st place** 12/2018
- **South Eastern European Mathematical Olympiad (SEEMOUS), Bronze Medal** 03/2018
- **NASA Space Apps Larisa, 3rd place** 03/2017

EXPERIENCE

- **GRASP Lab, University of Pennsylvania (UPenn)** 08/2024 - current
 - Visiting Student in Rene Vidal's Lab
 - Working on Robustness of Deep Networks through LLM's and Semantic Information
- **Optimization - ML Lab, Johns Hopkins University (JHU)** 08/2020 - 07/2021
 - Research Assistant in Professor Nicolas Loizou's Lab
 - Worked on Large Scale Optimization Methods for Multi-agent problems
- **CoReLab, National Technical University of Athens (NTUA)** 08/2020 - 07/2021
 - Advisor: Dimitris Fotakis
 - Worked on opinion dynamics and characterised their convergence in graphs

PUBLICATIONS & RESEARCH PROJECTS

- *Stochastic Extragradient with Random Reshuffling: Improved Convergence for Variational Inequalities*
Konstantinos Emmanouilidis, Rene Vidal, Nicolas Loizou, AISTATS 2024
- *Opinion Dynamics in Graphs with Hidden Links,*
Undergraduate thesis, w/ Dimitris Fotakis, Pavlos Efraimidis

TECHNICAL SKILLS

- *Python, C++ (intermediate)*
- *Web: HTML, CSS, JavaScript, php (advanced)*
- *Frameworks: PyTorch, Numpy, TensorFlow*

TEACHING EXPERIENCE

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| • <i>Optimization for Data Science, JHU, Prof. Nicolas Loizou</i> | <i>08/2023 - 12/2023</i> |
| • <i>Algorithms and Data Structures, DUTH, Prof. Pavlos Efraimidis</i> | <i>10/2020 - 02/2021</i> |

PROFESSIONAL SERVICE

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| • <i>Reviewer: ICML 2024, ICLR 2024, JMLR 2024</i> | |
| • <i>Organiser: Workshop on Federated Learning, NeurIPS</i> | |
| • <i>Volunteering:</i> | |
| ○ <i>Chairman, IEEE DUTH Student Branch</i> | <i>06/2019 - 08/2020</i> |
| ○ <i>Founder of IEEE DUTH Computer Chapter</i> | <i>12/2019</i> |
| ○ <i>Vice Chair for Technical Activities, IEEE DUTH Student Branch</i> | <i>11/2018 - 05/2019</i> |
| ○ <i>Coordinator of "Learning to Code with Python" team, IEEE DUTH SB</i> | <i>10/2017 - 05/2018</i> |

MISCELLANEOUS

- *Languages: English, Greek, German, French*
- *Interests/Hobbies: Piano, Guitar*