

Konstantinos Emmanouilidis

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

RESEARCH INTERESTS

(Multi-agent) Optimization, Machine Learning Theory, 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 Fellowship** 2023, 2024
- **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)** 08/2022 - 07/2024
 - 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

TEACHING EXPERIENCE

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

TECHNICAL SKILLS

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

PROFESSIONAL SERVICE

- *Reviewer: ICML 2024, ICLR 2024, JMLR 2024*
- *Organizer: Workshop on Machine Learning and Optimization, IEEE CISS 2023*
- *Volunteering:*
 - *DeepMath Conference* 2024
 - *Chairman, IEEE DUTH Student Branch* 06/2019 - 08/2020
 - *Founder of IEEE DUTH Computer Chapter* 12/2019
 - *Vice Chair for Technical Activities, IEEE DUTH Student Branch* 11/2018 - 05/2019
 - *Coordinator of "Learning to Code with Python" team, IEEE DUTH SB* 10/2017 - 05/2018

MISCELLANEOUS

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