

# Charis Stamouli

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## RESEARCH INTERESTS

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Control Theory, Machine Learning

## EDUCATION

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**University of Pennsylvania (UPenn)** 09/2020–present

Ph.D. in Electrical and Systems Engineering

**National Technical University of Athens (NTUA)** 09/2014–11/2019

Diploma in Electrical and Computer Engineering (MEng, five-year degree)

- Thesis: Multi-agent Formation Control based on Distributed Estimation with Prescribed Performance  
Advisor: Kostas J. Kyriakopoulos
- GPA: 9.50/10, rank in top 3% of class

## PROFESSIONAL EXPERIENCE

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**Teaching Assistant at UPenn**

CIS520: Machine Learning 01/2022–04/2022

ESE500: Linear Systems Theory 08/2021–12/2021

- Designed homework and exam sets, held office hours, taught classes

**Research Assistant at NTUA**

Department of Mechanical Engineering, Control Systems Lab 11/2018–05/2020

- Conducted research in formation control of multi-agent systems based on distributed estimation

**Robotics Intern at National Centre for Scientific Research “Demokritos”**

Institute of Informatics and Telecommunications, Roboskel Lab 07/2018–08/2018

- Collected images of obstacles using a camera placed on a mobile robot
- Extended and implemented an algorithm for obstacle recognition during the autonomous motion of a vision-enabled mobile robot

**Teaching Assistant at NTUA**

Programming Techniques 02/2017–06/2017

- Assisted students in the lab sessions

## PUBLICATIONS

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Conference papers:

- **C. Stamouli**, E. Chatzipantazis, and G. J. Pappas, “Structural Risk Minimization for Learning Nonlinear Dynamics,” IEEE American Control Conference (ACC), 2024. To appear.
- **C. Stamouli**, A. Tsiamis, M. Morari, and G. J. Pappas, “Adaptive Stochastic MPC under Unknown Noise Distribution,” Conference on Learning for Dynamics and Control (L4DC), PMLR, pp. 596-607, 2022.
- **C. J. Stamouli**, C. P. Bechlioulis, and K. J. Kyriakopoulos, “Robust Dynamic Average Consensus with Prescribed Performance,” 2019 IEEE 58th Conference on Decision and Control (CDC), pp. 5420-5425, 2019.

Journal papers:

- **C. J. Stamouli**, C. P. Bechlioulis, and K. J. Kyriakopoulos, “Robust Dynamic Average Consensus with Prescribed Transient and Steady State Performance,” Automatica, vol. 144, 110503, 2022.
- **C. J. Stamouli**, C. P. Bechlioulis, and K. J. Kyriakopoulos, “Multi-Agent Formation Control Based on Distributed Estimation with Prescribed Performance,” in IEEE Robotics and Automation Letters, vol. 5, no. 2, pp. 2929-2934, 2020. Presented at ICRA 2020.

Preprints:

- **C. Stamouli**, I. Ziemann, and G. J. Pappas, “Rate-Optimal Non-Asymptotics for the Quadratic Prediction Error Method,” arXiv preprint arXiv:2404.07937, 2024.

## HONORS AND AWARDS

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<b>American Control Conference Travel Grant</b> for being a Best Student Paper Finalist in the conference	2024
<b>Ganster Engineering Fellowship</b> Department of Electrical and Systems Engineering, UPenn	2020
<b>The Dean's Fellowship</b> Department of Electrical and Systems Engineering, UPenn	2020
<b>NTUA Thomaidion Award</b> for the publication "Robust Dynamic Average Consensus with Prescribed Performance"	2019
<b>Eurobank EFG Award</b> for ranking first in my high school on the Nationwide University Entrance Examination	2014

## SKILLS

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<b>Programming</b>	Python, C/C++, MATLAB (proficient), Java, Prolog, ML (past experience)
<b>Languages</b>	English (fluent), Spanish (advanced), Greek (native)