



# Panagiotis Kounatidis

Born 10.20.2000

## Contact

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## Statement

I have a strong theoretical and practical expertise in optimal stochastic control, reinforcement learning and multi-agent control, which is demonstrated by my achievements in challenging projects in robotics, where I have applied this knowledge.

## Education

- 2024 - Present      **PhD in Systems Engineering, Cornell University, Ithaca, NY, USA**  
GPA: 4.127/4.300  
Total Credits: 69  
Related Courses (see Transcripts below for all)
- SYSEN 6680 - Optimal Control and Decision Theory, A+
  - SYSEN 6690 - Information Design for Strategic Decision-Making, A+
  - ECE 7230 - Bayesian Estimation, A+
  - ORIE 6510 - (Measure Theoretic) Probability, A-
  - ORIE 6780 - Bayesian Statistics & Data Analysis, A
- 2018 - 2023      **Diploma Studies (Integrated BS & MS) in Mechanical Engineering, National Technical University of Athens (NTUA), Athens, Greece**  
GPA: 8.82/10.00, which ranks in the top 3.57%
- 2022                **Erasmus exchange studies in School of Engineering & Design, Technical University of Munich (TUM), Munich, Germany**
- 2012 - 2018      **Saint Joseph Greek-French Private High School, Athens, Greece**  
Apolytirion grade: 20/20. Scholarship during all years of High School

## Work Experience

- 2024 - Present      **Graduate Researcher at the [Information & Decision Science Lab](#) at Cornell University, supervised by Prof. Andreas Malikopoulos**  
I study optimal stochastic control, reinforcement learning and decentralized control and their application to robotics and autonomous vehicles  
Highlights:
- I analyzed and implemented a novel framework for safety-constrained continuous optimal control problems with unknown system dynamics, and validated the framework on a cruise control application to real wheeled robots. [Paper](#), [Code](#), [Video](#)
  - I analyzed and implemented a new algorithm for optimal control problems with unknown dynamics based on dynamic programming and stochastic gradient descent. [Paper](#), [Code](#)
  - I implemented a machine learning-based multi-robot navigation framework on real robots. [Paper](#), [Video](#)
  - I implemented a gradient-free stochastic optimization algorithm on simulated linear systems and validated its theoretical robustness properties: [Paper](#)
  - I excel in all the courses I undertake: no grade other than A (see Transcripts below)

- I operate seven [LIMO ROS2 robots](#), which I learned how to do independently in just one month, and have showcased their full range of functionality to prestigious lab visitors, including the Board of Trustees of Cornell
- I co-organize the [DDLc seminars](#)

Fall 2025

**Lead Teaching Assistant (TA) for the course CEE 3040 – Uncertainty Analysis in Engineering**

I prepared teaching material, mostly in Jupyter notebooks, hold lectures, discussions and office hours for the students, proctored exams, helped Prof. Ricardo Daziano in organizing the course and coordinated with the other two TAs and grader of the course

**Grader for the course CEE 6080 – Optimal Control and Decision Theory**

I graded students' assignments and exams

2022 - 2024

**Graduate Researcher at the [Institute of Automotive Technology](#) at TUM and at the [Vehicles Laboratory](#) at NTUA, supervised by Simon Sagmeister, team lead of [TUM Autonomous Motorsport](#), and Prof. Dimitris V. Koulocheris**

I developed a vehicle model to enable a thorough evaluation of vehicle motion controllers in simulation: [Paper](#). I then contributed to an extension of this model, which now runs on the software stack of the TUM Autonomous Motorsport team and is used to evaluate vehicle motion controllers in simulation: [Paper](#), [Code](#)

August 2022

**IT Volunteer at the [2022 European Championships](#), Munich, Germany**

2019 - 2021

**Mechanical Designer & Manufacturer at [Prom Racing](#), the Formula Student (FS) team of NTUA**

I designed and manufactured the aerodynamic structure of the formula race car

Team achievements:

- Season 2020-2021: 11 different podiums in total, 1<sup>st</sup> place overall in FS Czech Republic
- Season 2019-2020: 6<sup>th</sup> place in static events in FS Online 2020

2014 - 2015

**Mechanical Designer & Manufacturer at [X-aile Racing](#), the F1 in Schools team of the Saint Joseph Greek-French Private High School**

I designed and manufactured the race car and received the 1<sup>st</sup> Award for "Best Mechanically Constructed Car" at the National Finals in 24-26 April 2015 in Thessaloniki, Greece

**Other Activities**

2023-2024

**Organizer of Stammtisch, an event of the [Deutscher Akademischer Austauschdienst](#) (DAAD) in Athens, Greece**

I organized and directed gatherings of Germans with Greeks to promote intercultural connections and foreign language learning once per month

July 2019

**Participated in the Summer Course: Life in Electric Land of the [Board of European Students of Technology](#) (BEST) in Cluj-Napoca, Romania**

**Awards**

IEEE CDC 2025 Student Travel Award  
ACC 2026 Student Travel Award

**Foreign Languages**

Fluent in English and German. Elementary French

Cornell University

Student Name: Panagiotis Kounatidis  
 Student ID: 5630127

Date printed:

1/23/2026

----- Beginning of Graduate Record -----

**FALL 2024**

Program: *Systems Engineering*  
 Plan: *Systems Major (SYSEN-PHD)*

Course	Description	Earned	Grade
CEE 6690	INFO DESIGN STRATEGIC DECISION	3,00	A+
GRAD 9010	GRADUATE-LEVEL RESEARCH	12,00	NG
SYSEN 6000	FOUNDATIONS OF COMPLEX SYS	3,00	A
SYSEN 6150	MODEL BASED SYSTEMS ENG	3,00	A+
SYSEN 8000	SYS DOCTORAL COLLOQUIUM	1,00	SX
SYSEN 8100	SYSTEMS SEMINAR SERIES - PHD	1,00	A+

Term GPA:	4,210	Term Totals:	23,00
Transfer Term GPA:		Transfer Totals:	0,00
Combined GPA:	4,210	Comb Totals:	23,00
Cum GPA:	4,210	Cum Totals:	23,00
Transfer Cum GPA:		Transfer Totals:	0,00
Combined Cum GPA:	4,210	Comb Totals:	23,00

**SPRING 2025**

Program: *Systems Engineering*  
 Plan: *Systems Major (SYSEN-PHD)*  
 Plan: *Systems Engineering Concentration (SYSTS-CON)*

Course	Description	Earned	Grade
GRAD 9010	GRADUATE-LEVEL RESEARCH	12,00	NG
ORIE 6510	PROBABILITY	4,00	A-
ORIE 6780	BAYESIAN STAT. & DATA ANALYSIS	3,00	A
SYSEN 6680	OPTIM CONTR AND DEC THEORY	3,00	A+
SYSEN 8100	SYSTEMS SEMINAR SERIES - PHD	1,00	A+

Term GPA:	4,000	Term Totals:	23,00
Transfer Term GPA:		Transfer Totals:	0,00
Combined GPA:	4,000	Comb Totals:	23,00
Cum GPA:	4,100	Cum Totals:	46,00
Transfer Cum GPA:		Transfer Totals:	0,00
Combined Cum GPA:	4,100	Comb Totals:	46,00

**SUMMER 2025**

Program: *Systems Engineering*  
 Plan: *Systems Major (SYSEN-PHD)*  
 Plan: *Systems Engineering Concentration (SYSTS-CON)*

Course	Description	Earned	Grade
GRAD 9016	SUMMER GRADUATE-LEVEL RESEARCH	6,00	NG

Term GPA:	0,000	Term Totals:	6,00
Transfer Term GPA:		Transfer Totals:	0,00
Combined GPA:	0,000	Comb Totals:	6,00
Cum GPA:	4,100	Cum Totals:	52,00
Transfer Cum GPA:		Transfer Totals:	0,00
Combined Cum GPA:	4,100	Comb Totals:	52,00

**FALL 2025**

Program: *Systems Engineering*  
 Plan: *Systems Major (SYSEN-PHD)*  
 Plan: *Systems Engineering Concentration (SYSTS-CON)*

Course	Description	Earned	Grade
CS 7796	ROBOTICS SEMINAR	0,00	V
ECE 7230	BAYESIAN ESTIMATION	4,00	A+
GRAD 9010	GRADUATE-LEVEL RESEARCH	12,00	NG
MATH 6110	REAL ANALYSIS	0,00	V
SYSEN 8100	SYSTEMS SEMINAR SERIES - PHD	1,00	A

Term GPA:	4,240	Term Totals:	17,00
Transfer Term GPA:		Transfer Totals:	0,00
Combined GPA:	4,240	Comb Totals:	17,00
Cum GPA:	4,127	Cum Totals:	69,00
Transfer Cum GPA:		Transfer Totals:	0,00
Combined Cum GPA:	4,127	Comb Totals:	69,00

**SPRING 2026**

Program: *Systems Engineering*  
 Plan: *Systems Major (SYSEN-PHD)*  
 Plan: *Systems Engineering Concentration (SYSTS-CON)*

Course	Description	Earned	Grade
GRAD 9010	GRADUATE-LEVEL RESEARCH	0,00	
MATH 6220	APPLIED FUNCTIONAL ANALYSIS	0,00	
SYSEN 8100	SYSTEMS SEMINAR SERIES - PHD	0,00	

Term GPA:	0,000	Term Totals:	0,00
Transfer Term GPA:		Transfer Totals:	0,00
Combined GPA:	0,000	Comb Totals:	0,00
Cum GPA:	4,127	Cum Totals:	69,00
Transfer Cum GPA:		Transfer Totals:	0,00
Combined Cum GPA:	4,127	Comb Totals:	69,00

**Graduate Career Totals**

Cum GPA:	4,127	Cum Totals:	69,00
Transfer Cum GPA:		Transfer Totals:	0,00
Combined Cum GPA:	4,127	Comb Totals:	69,00

End of Career

----- END OF UNOFFICIAL TRANSCRIPT -----