Gunes Cagin Aydin

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Education

2022–25	**M.Sc.**, Mechanical Engineering - Mechatronics Track, Politecnico di Milano (PoliMI)
2017–22	**B.Sc.** Mechanical Engineering, Middle East Technical University (METU)
2013–17	**Highschool Diploma** Scholarly Development Program, TED Ankara College

Research Experience

2025–	Graduate Researcher, Universitat Politècnica de Catalunya, (Advisor: Antoni Guillamon)
2024–25	Graduate Researcher, Politecnico di Milano, (Advisor: Loris Roveda)
2020–22	Undergraduate Researcher, METU Engineered Biosystems Laboratory, Middle East Technical University, (Advisor: Altug Ozcelikkale)

Work Experience

2019	Manufacturing Engineering Intern, FNSS Inc., Ankara, Turkey (short term internship on mechanical design and manufacturing methodologies, theoretical and applied)

Workshops and Conferences

2025	ERNSI Workshop on System Identification, Bordeaux, France
2026	RSS Conference on Robotics: Science and Systems[*], Sydney, Australia

Publications

Posters	Advancing Dynamical Identification Methodologies Through In- Context Dynamical Metalearning: A Comparison Between Different Neural Architectures
Conferences	Dynamical Identification Through Autoregressive and Generative Models[†]

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[*]Upcoming.
[†]Preprint.

Awards & Honors

2017   Class of 17 Honor Student TED Ankara College
2022   Class of 22 Honor Student Middle East Technical University
2019–22   Undergraduate Scholarship Recipient Nurol Holding

Theses

2024–25   In Context Meta-Learning Identification of Dynamic Systems, MSc Thesis,
(Advisor: Loris Roveda)

2022–22   A LiDAR Stabilization Method for 3D Orthogonal Mapping, BSc Thesis,
(Advisor: Erhan Ilhan Konukseven)

Projects

2025–   Single Neuron Dynamical Identification and Coherence Estimation,
(Advisor: Antoni Guillamon

2023–24   MATLAB Implementation of Path Finding Algorithms,
(Advisor: Stefano Arrigoni)

2021–22   Design and Programming of Spin Coater for WetLab Facilities,
(Advisor: Altug Ozcelikkale)

2021–22   Mechanical Design of Gear Socket,
(Advisor: Suat Kadioglu)

2020–21   Mechanical Design of Drum Cutter,
(Advisor: Suat Kadioglu)

Academic and Language Skills

Academic   C/C++, Python (Pytorch), MATLAB; HTML/CSS,; git; LaTeX, Office Suite
COMSOL, ABAQUS ,
Siemens NX, SolidWorks
Linux, Windows

Language   Turkish (Native), English (Fluent), French (Advanced), German (Intermediate),
Italian (Basic), Portuguese (Basic)

Extracurricular Interests

poetry, literature, equestrianism, music, traveling...

Last updated: October 28, 2025