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Hassan Munif

PhD student in Automatic Control

Research focus Multi-agent systems, game theory, strategic communication, opinion dynamics, and federated learning.

Education

Oct. 2023 – present **PhD in Automatic Control**, *CRAN (CNRS), Université de Lorraine*, Nancy, France
Joint PhD with TICLab, Université Internationale de Rabat, Morocco.
Thesis: Strategic Information Transmission in Networked Systems.
Supervisors: Samson Lasaulce, Vineeth S. Varma, Mounir Ghogho.

2022 – 2023 **Research Master's, M2 – Multimedia Networking**, *Université Paris-Saclay*, Orsay, France, First-class honors
Thesis: Inverse Optimal Transport Regularized in the Fourier Domain (L2S, CentraleSupélec).

2018 – 2022 **Engineering Diploma in Computer & Telecommunication Engineering**, *Faculté de Génie, Lebanese University*, Beirut, Lebanon

Publications & Preprints

Journal articles

[J1] **Hassan Munif**, Chao Zhang, Samson Lasaulce, Olivier Beaude, Vineeth S. Varma, Mounir Ghogho, and H. Vincent Poor (2026). "*Pricing for Information Revelation in Demand Response: A Strategic Communication Approach*." Accepted for publication in *IEEE Transactions on Smart Grid*, October 2026. [DOI] [arXiv]

Journal manuscripts under review

[J2] **Hassan Munif**, Anthony Couthures, Vineeth S. Varma, Samson Lasaulce, and Tamer Başar (2026). "*Network-Induced Strategic Communication in Opinion Dynamics*." Under review at *IEEE Transactions on Control of Network Systems*. [arXiv] [Code]

Conference papers

[C2] **Hassan Munif**, Vineeth S. Varma, and Samson Lasaulce (2026). "*Strategic Gaussian Signaling under Linear Sensitivity Mismatch*." 23rd IFAC World Congress, Busan, South Korea. [arXiv]

[C1] **Hassan Munif**, Chao Zhang, Samson Lasaulce, Vineeth S. Varma, Mérouane Debbah, and Mounir Ghogho (2024). "*Strategic Federated Learning: Application to Smart Meter Data Clustering*." EUSIPCO 2024. [DOI] [arXiv]

Conference papers under review

[C3] **Hassan Munif**, Anthony Couthures, Vineeth S. Varma, Samson Lasaulce, and Irinel-Constantin Morărescu (2026). "*Robust Action Clusters and Cascades in Opinion Dynamics with Heterogeneous Action Thresholds*." Submitted to the European Control Conference (ECC 2027). [arXiv]

Research Experience

May – Aug. 2025 **Research visit**, *Université Internationale de Rabat*, Rabat, Morocco
Hosts: Mounir Ghogho and Ouassim Karrakchou.

Apr. – Oct. 2023 **Research internship (M2)**, *L2S, CentraleSupélec*, Gif-sur-Yvette, France
Inverse optimal transport in the Fourier domain; supervisor: Maxime Ferreira Da Costa.

Awards & Funding

2023 – 2026 **LUE Doctoral Grant**, *Lorraine Université d'Excellence*, Université de Lorraine

Oct. 2023 **Best Presentation Award**, *Junior Conference on Wireless and Optical Communication (JWOC)*, Télécom Paris, Palaiseau, [slides]

Teaching & Supervision

2025 – 2026 **Teaching assistant – Introduction to Automatic Control**, *Polytech Nancy*
8 h tutorials + 16 h practical classes: MATLAB, exercises, projects, and exam marking.

2024 – 2025 **Teaching assistant – Introduction to Programming (Java)**, *EEIGM*
32 h lectures, tutorials, and practical classes (data structures, algorithms, problem solving); 32 h student project supervision and assessment.

Talks & Presentations

Nov. 2026 Invited talk, Politecnico di Torino: network-induced strategic communication in opinion dynamics [J2]. Host: Giacomo Como. [Slides]

Aug. 2026 Paper presentation [C2], 23rd IFAC World Congress, Busan, South Korea.

Jun. 2025 Invited seminar, Université Internationale de Rabat: strategic communication in federated learning, in collaboration with Ouassim Karrakchou.

Feb. 2025 Poster on strategic federated learning, IAEM Doctoral School. [Poster]

Aug. 2024 Paper presentation [C1], EUSIPCO 2024, Lyon, France.

Oct. 2023 JWOC, Palaiseau: inverse optimal transport regularized in the Fourier domain. [Slides]

Academic Service

Reviewer

2026 European Control Conference (ECC 2027)

2026 IEEE Transactions on Automatic Control (TAC)

2026 IEEE Control Systems Letters (L-CSS)

2026 23rd IFAC World Congress

2025 IEEE ICASSP 2026 (reviews completed in 2025)

Summer Schools & Workshops

Oct. 2025 30 Years of Game Theory at Institut Henri Poincaré, Paris.

May 2025 CIMPA school: Transport optimal, EDP et optimisation, Essaouira, Morocco.

Sep. 2024 Grand Séminaire Multi-Agent Systems, GDR MACS, Paris.

Jun. 2024 Games and Artificial Intelligence Multidisciplinary Summer School (GAIMSS).

Other Skills & Languages

Python PyTorch, SciPy, Matplotlib, pandas, Numba, Manim.

Other tools MATLAB, Java, C++, Git, GitHub.

Languages Arabic (native); English (fluent); French (professional working proficiency).