

Yuwen Ma

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RESEARCH FOCUS

- Distributed stochastic optimization, Differential privacy, cooperative control, Multi-agent system.

EDUCATION

- **PhD student, University College London**, department of Electronic and Electrical Engineering. 2024–
Supervisor: Prof. Sarah Spurgeon.
- **M.E., Shanghai Jiao Tong University**, department of Automation, Shanghai. 2021 – 2024.03
Thesis title: *Output-feedback consensus controller of multi-agent systems without inter-controller communication*.
Supervisor: Prof. Xianwei Li.
- **B.E., Beihang University**, school of Automation Science and Electrical Engineering, Beijing. 2017 – 2021
Thesis title: *Design of flight attitude trajectory based on multiple differentiators*. Supervisor: Prof. Li Fu.

RESEARCH PUBLICATIONS

Journal Articles

1. **Y. Ma**, X. Li, S. Li and Z. Lin, “Reduced-order consensus protocols with pure relative output: design, existence, and dual results”, IEEE Transactions on Automatic Control, 2025.[\[Publisher\]](#)
2. **Y. Ma**, X. Li, and S. Li, “A reduced-order protocol for linear multi-agent consensus without inter-controller communication,” Acta Automatica Sinica, 2023, 49(9): 1836–1844. [\[Publisher\]](#)

Conference Proceedings

3. **Y. Ma**, X. Li, and S. Li, “Consensus of linear multi-agent systems with pure relative output through fully distributed reduced-order protocols,” IFAC-PapersOnLine, 2023, 56(2): 10162–10167.[\[Publisher\]](#)
4. **Y. Ma**, X. Li, and S. Li, “A novel protocol with pure relative output information for consensus of linear multi-agent systems,” in Proceedings of the 61st IEEE Conference on Decision and Control, Cancun, Mexico, 2022, pp.340–345. [\[Publisher\]](#)
5. **Y. Ma**, Yongqiang Wang, Sarah K. Spurgeon, Boli Chen “Distributed Finite-Horizon Optimal Control for Consensus with Differential Privacy Guarantees”, accepted by Proceedings of the 64th IEEE Conference on Decision and Control, 2025.

SELECTED AWARDS & EXPERIENCE

Awards and Achievements

- **Grand Prize** in 7th China Industrial Intelligence Challenge, Shanghai. 2019
- **Grand Prize** of Disciplinary Competition Scholarship, Beihang University. 2020
- **First level Scholarship**, Shanghai Jiao Tong University. 2021–2023
- **The First Prize** of CASC Scholarship. 2022
- **National Scholarship**, Ministry of Education, China. (top 1% student). 2023
- **Excellent Graduate** of Shanghai Jiao Tong University. 2024
- **EPSRC Doctoral Training Partnerships**, UK Research and Innovation. 2024
- **Best Master’s Thesis** awarded by the Shanghai Association of Automation. 2025

Professional Services

- **Reviewer** for [TITS](#), [TCNS](#), [TCDS](#), [CDC](#), [ECC](#), [ICCA](#).