

Tommaso d'Orsi

Curriculum Vitae

✉ tommasodorsi@gmail.com
📁 [tommasodorsi.github.io](https://github.com/tommasodorsi.github.io)

Employment

- starting Sept. 2024 **Assistant Professor**, *Bocconi*.
- Oct. 2023 – August 2024 **Research Fellow**, *Bocconi*.
Host: Prof. Luca Trevisan
- 2024 **Visiting Faculty**, *Google Research*, Google AI Algorithms and Optimization.
- Aug. 2023 – Sept 2023 **Research Assistant**, *ETH Zurich*.

Education

- 2018–2023 **PhD in Computer Science**, *ETH Zurich*.
Advisor: Prof. David Steurer
- 2015–2017 **Master of Engineering in Computer Science**, *Sapienza University of Rome*.
110/110 *Summa cum laude*
- 2012–2015 **Bachelor of Engineering in Computer Systems**, *Sapienza University of Rome*.

Publications (authors listed in alphabetical order)

- V. Cohen-Addad, T. d'Orsi, A. Epasto, V. Mirrokni, P. Zhong *Perturb-and-Project: differentially private similarities and marginals*, **ICML 2024** (spotlight), **TPDP 2024**.
- V. Cohen-Addad, T. d'Orsi, S. Lattanzi, R. Nasser, *Community detection and heterogeneous stochastic block models*, **ICML 2024**.
- V. Cohen-Addad, T. d'Orsi, A. Mousavifar, *A near-linear time approximation algorithm for balanced cut in the semi-random model*, **ICML 2024**.
- H. Chen, J. Ding, T. d'Orsi, Y. Hua, C. Liu, D. Steurer, *Private graphon estimation via sum-of-squares*, **STOC 2024**.
- H. Chen, V. Cohen-Addad, T. d'Orsi, A. Epasto, J. Imola, D. Steurer, S. Tiegel, *Private estimation algorithms for stochastic block models and mixture models*, **NeurIPS 2023** (spotlight).
- J. Ding, T. d'Orsi, Y. Hua, D. Steurer, *Reaching the Kesten-Stigum threshold in the stochastic block model under node corruptions*, **COLT 2023**.
- T. d'Orsi, L. Trevisan, *A Ihara-Bass formula for non-boolean matrices and strong refutations of random CSPs*, **CCC 2023**.

- T. d'Orsi, R. Nasser, G. Novikov, D. Steurer, *Higher degree sum-of-squares relaxations robust against oblivious outliers*, **SODA 2023**.
- J. Ding, T. d'Orsi, C. Liu, D. Steurer, S. Tiegel, *Fast algorithm for overcomplete order-3 tensor decomposition*, **COLT 2022**.
- H. Chen, T. d'Orsi, *On the well-spread property and its relation to linear regression*, **COLT 2022**.
- J. Ding, T. d'Orsi, R. Nasser, D. Steurer, *Robust Recovery for Stochastic Block Models*, **FOCS 2021**.
- T. d'Orsi, C. Liu, G. Novikov, D. Steurer, S. Tiegel, *Consistent Estimation for PCA and Sparse Regression with Oblivious Outliers*, **NeurIPS 2021**.
- D. Choo, T. d'Orsi, *The Complexity of Sparse Tensor PCA*, **NeurIPS 2021**.
- T. d'Orsi, G. Novikov, D. Steurer, *Consistent regression when oblivious outliers overwhelm*, **ICML 2021**.
- T. d'Orsi, P. Kothari, G. Novikov, D. Steurer, *Sparse PCA: Algorithms, Adversarial Perturbations and Certificates*, **FOCS 2020**.
- T. d'Orsi, P. Wollan, *Coloring graphs with no clique immersion*, **SIAM Conference in Discrete Mathematics 2018**.
- D. Fracassi, F. d'Orsi, D. Carretta, V. Cennamo, T. d'Orsi, *Proposta di un metodo parametrico per la gestione del rischio aggressione sul luogo di lavoro*, In **Atti del 34° Congresso Nazionale di Igiene Industriale e Ambientale, 2017**.

Teaching and Student Supervision

Master Thesis Supervisor of: Francesco Agrimonti (2024), Hongjie Chen (2021, *ETH medal* for outstanding thesis), Davin Choo (2020).

Head Teaching Assistant for *Algorithms and Data structures*, 2021, 2022 .
Managing over 30 teaching assistants and 600 hundreds students.

Teaching Assistant for *Algorithms and Data structures*, 2018, 2019, 2020.

Teaching Assistant for *Optimization for Data Science*, 2019, 2020, 2021.

Teaching Assistant for *Presenting Theoretical Computer Science*, 2020.

Awards

2023 **ETH Medal for Outstanding PhD Thesis**.

Internships

2022 – 2023 **Student Researcher**, *Google Research*, Google AI Algorithms and Optimization.
Host: Vincent Cohen-Addad