Davide Manini – CV

Date of Birth	August 26, 1995	**Mobile Phone**	+39 327 5846205
Nationality	Italian	**Email**	dmanini@campus.technion.ac.il

Academic positions

Oct 2024 – now	**Post-doc**, Technion — Israel Institute of Technology, Haifa, Israel

Education

Oct 2019 – Oct 2024	**Ph.D.** in Mathematical Analysis, Models, and Applications, SISSA, Trieste, Italy *Thesis title:* Isoperimetric inequalities in non-compact spaces *Thesis advisor:* F. Cavalletti
Oct 2017 – Jul 2019	**Master of Science** (*Laurea Magistrale*) in Mathematics, University of Pavia, Italy *Final score:* 110/110 c. laude *Thesis title:* Sliding mode control for a generalization of the Caginalp phase field system *Thesis advisor:* P. Colli *Exams grades* min/average/max: 27/29.6/30 c. laude
Mar 2018 – Jul 2018	**Erasmus internship**, Humboldt University of Berlin
Oct 2014 – Jul 2017	**Bachelor of Science** (*Laurea Triennale*) in Mathematics, University of Pavia, Italy *Final score:* 110/110 cum Laude *Thesis title:* Lie Groups: an Introduction *Thesis advisor:* F. Bonsante *Exams grades* min/average/max: 25/29.3/30 c. laude

Awards

In 2017, I have been awarded a € 2500 scholarship by INdAM (the Italian National Institute of High Mathematics)

Language Skills

Italian	Mother tongue	**English**	B2 (FCE)

Papers and Preprints

[1] F. CAVALLETTI, D. MANINI, AND A. MONDINO, Optimal transport on null hypersurfaces and the null energy condition Preprint at arXiv:2408.08986.

[2] D. MANINI, Isoperimetric inequality for Finsler manifolds with non-negative Ricci curvature. Rev. Mat. Iberoamericana, 40, pp. 1631–1690 (2024)

[3] F. CAVALLETTI AND D. MANINI, Rigidities of isoperimetric inequality under nonnegative Ricci curvature. J. Eur. Math. Soc. (2024), published online first.

[4] F. CAVALLETTI AND D. MANINI, Isoperimetric inequality in noncompact MCP spaces. Proc. Am. Math. Soc., 150 (2022), pp. 3537–3548.

[5] P. COLLI AND D. MANINI, Sliding mode control for a generalization of the Caginalp phase-field system. Applied Mathematics and Optimization, 84 (2021), pp. 1395–1433.