

Allegato B

Ivan Yuri Violo Curriculum Vitae (redatto ai fini della pubblicazione)

Part I – General Information

Full Name	IVAN YURI VIOLO
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Part II – Education

Type	Year	Institution	Notes
Bachelor degree in mathematics	2015	University of Padua	Degree: 110 cum laude
Master degree in mathematics	2017	University of Padua	Degree: 110 cum laude
PhD in mathematics	2021	SISSA, Trieste	Degree: cum laude

Part III – Academic appointments

Start	End	Institution	Position
10/2021	08/2023	University of Jyväskylä	Postdoctoral researcher
09/2023	04/2025	SNS Pisa	Postdoctoral researcher
05/2025	ongoing	University of Pisa	Postdoctoral researcher on the ERC project “ConFine”

Part IV – Teaching experience

Year	Institution	Lecture/Course
2022	University of Jyväskylä	Teaching assistant for the master course "Measure and Integration 2"

Part V – Research stays

Period	Brief Description
07/11/2022-20/11/2022	Long term visit (with funds) in the "Thematic Program on Nonsmooth Riemannian and Lorentzian Geometry" at Fields Institute, Toronto, Canada
06/05/2019-07/06/2019	Long term visit (with funds) in the "Thematic program on Optimal Transport" Erwin Schrödinger International Institute, Wien, Austria
10/12/2022-16/12/2022	Visit at Laboratoire Jacques-Louis Lions invited by Prof. Max Fathi, Paris,

	France
22/03/2024-02/04/2024	Visit at Laboratoire Jacques-Louis Lions invited by Prof. Max Fathi, Paris, France
14/11/2024-15/11/2024	Short research visit at SISSA, invited by Prof. Nicola Gigli, Trieste, Italy
23/02/2026-06/03/2026	(Future) Research visit at University of Jyväskylä

Part VI – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Scientific Papers	15	Scopus / Web of Science	2019	2026

Total Citations	61
Average Citations per Product	4
Hirsch (H) index	5

Part VII–Publications

1. Francesco Nobili, Ivan Yuri Violo, *Generalized existence of extremizers for the sharp p -Sobolev inequality on Riemannian manifolds with nonnegative curvature*, Nonlinear Analysis, Volume 266, 2026, 114029. <https://doi.org/10.1016/j.na.2025.114029>
2. Nobili, F., Violo, I.Y. *Fine Pólya-Szegő rearrangement inequalities in metric spaces and applications*. Calc. Var. 64, 276 (2025). <https://doi.org/10.1007/s00526-025-03155-7>
3. Katrin Fässler, Ivan Yuri Violo, *On various Carleson-type geometric lemmas and uniform rectifiability in metric spaces: Part 1*. Rev. Mat. Iberoam. 41 (2025), no. 6, pp. 2003–2054 <https://doi.org/10.4171/rmi/1575>
4. Violo, I.Y. *Fat Triangles Inscribed in Arbitrary Planar Domains*. Discrete Comput Geom **74**, 619–660 (2025), <https://doi.org/10.1007/s00454-025-00757-y>
5. Luca Benatti, Ivan Yuri Violo, *Second-order estimates for the p -Laplacian in RCD spaces*, Journal of Differential Equations, Volume 439, 2025, 113398. <https://doi.org/10.1016/j.jde.2025.113398>
6. Ivan Yuri Violo, *An overview of regularity results for the Laplacian and p -Laplacian in metric spaces*, Indagationes Mathematicae, 2025. <https://doi.org/10.1016/j.indag.2025.04.005>
7. N. Gigli, Ivan Yuri Violo, *Notes on the Cheeger and Colding version of the Reifenberg theorem for metric spaces*, BUMI , Volume 18 (1) (2025) <https://doi.org/10.1007/s40574-025-00458-7>
8. Hyde, M., Villa, M., & Violo, I. Y. (2024). *Ricci curvature bounded below and uniform rectifiability*. Annales Fennici Mathematici, 49(2), 751–772. <https://doi.org/10.54330/afm.153338>
9. Nicolò De Ponti, Sara Farinelli, Ivan Yuri Violo, *Pleijel nodal domain theorem in non-smooth setting*, Trans. Amer. Math. Soc. Ser. B 11 (2024), 1138–1182. <https://doi.org/10.1090/btran/196>
10. Francesco Nobili, Ivan Yuri Violo, *Stability of Sobolev inequalities on Riemannian manifolds with Ricci curvature lower bounds*, Advances in Mathematics, Volume 440, 2024, 109521. <https://doi.org/10.1016/j.aim.2024.109521>
11. Antonelli G, Pasqualetto E, Pozzetta M, Violo IY. *Topological regularity of isoperimetric sets in PI spaces having a deformation property*. Proceedings of the Royal Society of Edinburgh: Section A Mathematics. 2025;155(2):611-633. doi:10.1017/prm.2023.105
12. Nobili, F., Violo, I.Y. *Rigidity and almost rigidity of Sobolev inequalities on compact spaces with lower Ricci curvature bounds*. Calc. Var. 61, 180 (2022). <https://doi.org/10.1007/s00526-022-02284-7>
13. Violo, Ivan Yuri. "A remark on two notions of flatness for sets in the Euclidean space" Journal für die reine und angewandte Mathematik (Crelles Journal), vol. 2022, no. 791, 2022, pp. 157-171. <https://doi.org/10.1515/crelle-2022-0043>

14. Gigli, N., Violo, I.Y. *Monotonicity Formulas for Harmonic Functions in $RCD(0,N)$ Spaces*. J Geom Anal **33**, 100 (2023). <https://doi.org/10.1007/s12220-022-01131-7>
15. Pier Domenico Lamberti, Ivan Yuri Violo, *On Stein's extension operator preserving Sobolev–Morrey spaces*, Math. Nachr. (2019), Volume 292, Issue 8, Pages 1701–1715. <https://doi.org/10.1002/mana.201700480>

Part VIII–Conference talks and seminars

- [16/12/2025] Workshop: "BIHO-NEWS: Endgame" - Closing event of the project, University of Pisa
- [03/09/2025] Seminars series "Calculus of Variations in Genova"
- [30/06/2025] Mini-courses in Mathematical Analysis 2025, University of Padua, Italy
- [28/09/2024] School and Conference MeRiOT, Lake Como, Italy
- [14/11/2024] SISSA Analysis seminar, Trieste, Italy
- [04/06/2024] Barcelona Analysis Conference BAC24, Universitat de Barcelona, Spain
- [16/05/2024] AGENT Forum 2024 conference, University of Jyväskylä, Finland
- [22/03/2024] PDE seminar at Université Paris Cité, France
- [05/12/2023] Centro De Giorgi Junior Visiting seminar, Scuola Normale Superiore of Pisa, Italy
- [07/12/2022] Jyväskylä Analysis Seminar, University of Jyväskylä, Finland
- [15/11/2022] Workshop on Aspects of Ricci Curvature Bounds, Fields Institute (Toronto), Canada
- [09/05/2022] XXXI Convegno Nazionale di Calcolo delle Variazioni, Levico-Terme, Italy
- [08/12/2021] Jyväskylä Analysis Seminar, University of Jyväskylä, Finland
- [05/11/2021] mms&convergence seminars, online seminar series
- [08/06/2021] Trento Analysis Seminar, University of Trento, Italy
- [04/06/2021] Analysis Junior Seminar, SISSA (Trieste), Italy
- [03/2019] Series of two seminars/lectures on "The Cheeger-Colding metric Reifenberg theorem", SISSA, Trieste
- [19/04/2021] Jyväskylä Geometric Analysis Seminar, University of Jyväskylä, Finland

Part IX–Reviewer activity

Referee service for the following journals:

Crelle's journal, Journal of Functional Analysis, Analysis & PDE, Journal of Mathematical Analysis and Applications, The Royal Society of Edinburgh: Proceedings A, Nonlinear Analysis, Communications in PDE, Archiv der Mathematik, Pure and Applied Functional Analysis, manuscripta mathematica, ESAIM Cocv, Proceedings of the London Mathematical Society, Journal of Geometric Analysis

Part IX–Awards

INDAM grant for Bachelor studies, from 2012 to 2015.