

Andrea Volpi

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Homepage

ORCID

Personal information

Date of birth: January 23, 1996

Place of birth: Brescia, Italy

Languages: Italian (native), English (fluent), German (B1)

Research interest

Reverse mathematics; Computability theory; Ramsey theory; Ordinal analysis

Education

Ph.D. student: Mathematics, University of Udine, Italy (supervisor: prof. Alberto Marcone)	from Nov 2022 (expected graduation Mar 2026)
Visiting scholar at UConn, Storrs, Connecticut, US (hosts: prof. Damir Dzharov, prof. Reed Solomon)	Jan 2023 to Apr 2023
Visiting scholar at NUS, Singapore (host: dr. Jun Le Goh)	Sep 2025 to Oct 2025
M.Sc.: Mathematics (L40), University of Trento, Italy	Jan 2019 to May 2021
B.Sc.: Mathematics (L35), University of Trento, Italy	Aug 2015 to Nov 2018

Graduate schools

Summer School on Proof Theory	Ghent, Belgium Sep 2025 1 week
Reverse mathematics: new paradigms ESI	Vienna, Austria Jul 2025 to Aug 2025 1 week
IMS graduate summer school in logic	Singapore Jun 2023 to Jul 2023 3 weeks
Computability and combinatorics summer school 2023	Hartford, Connecticut May 2023 1 week
Discrete mathematics and logic: between mathematics and the computer science	Marseille, France Jan 2023 1 week
AILA logic summer school	Gargnano, Italy Aug 2022 1 week

Teaching experience

Teaching assistant, University of Udine, Italy:

- Geometry I, B.Sc. in mathematics, Sep 2024 to May 2025
- Linear algebra, B.Sc. in engineering, Sep 2024 to Dec 2024
- Calculus I, B.Sc. in mathematics, Nov 2023 to Dec 2023
- Calculus I, B.Sc. in informatics, Sep 2023 to Oct 2023
- Calculus I, B.Sc. in informatics and IBML, Jan 2023 to Sep 2023

Teaching assistant, University of Trento, Italy:

- Geometry and linear algebra, B.Sc. in engineering, Sep 2020 to Dec 2020
- Geometry and linear algebra, B.Sc. in engineering, Jan 2020 to May 2020
- Geometry I, B.Sc. in mathematics, Sep 2019 to Dec 2019
- Geometry and linear algebra, B.Sc. in engineering, Jan 2019 to May 2019

Publications and ongoing research

- [1] **Effectiveness and strong graph indivisibility**, joint with Damir Dzhamalov and Reed Solomon, <https://arxiv.org/abs/2411.16950> (submitted)
- [2] **The barrier Ramsey theorem**, joint with Alberto Marcone and Antonio Montalbán, <https://arxiv.org/abs/2505.02544> (submitted)
- [3] **Reverse mathematics and dimension of posets**, joint with Marta Fiori Carones and Alberto Marcone, (work in progress)
- [4] **The strength of Ramsey theorem for α -large sets**, joint with Lorenzo Carlucci and Konrad Zdanowski, (work in progress)
- [5] **Classification of ultrahomogeneous graphs and posets**, joint with Jun Le Goh, (work in progress)

Conferences attended

Workshop on Proof Theory Ghent, Belgium	Sep 4-5, 2025
Computability in Europe 2025 Lisbon, Portugal	Jul 14-18, 2025
Reverse mathematics ESI Vienna, Austria	23 Jun-29 Aug, 2025
Weihrauch Complexity: Structuring the Realm of Non-Computability Schloss Dagstuhl, Germany	Mar 23-28, 2025
XXVIII AILA logic meeting 2024 Udine, Italy	Sep 3-6, 2024
Models, sets and classifications PRIN meeting 2024 Udine, Italy	Sep 2, 2024
Leeds computability days 2024 Leeds, UK	Jul 2-5, 2024
Logic colloquium 2024 Gothenburg, Sweden	Jun 24-28, 2024
RaTLoCC Pisa, Italy	Jun 11-14, 2024
Computability and combinatorics conference 2023 Hartford, Connecticut	May 19-21, 2023

Selected talks

Sapienza LOC3 seminar University La Sapienza, Roma (Invited) Presentation title: Effectiveness and strong graph indivisibility	Nov 7, 2025
Singapore logic seminar National University of Singapore, Singapore (Invited) Presentation title: Effectiveness and strong graph indivisibility	Sep 17, 2025
Proof society 2025 University of Ghent, Belgium Presentation title: The barrier Ramsey theorem <i>Winner of the best student presentation award of Proof Society 2025</i>	Sep 4, 2025
Computability in europe 2025 University of Lisbon, Portugal Presentation title: The strength of Ramsey theorem for α -large sets	Jul 18, 2025
Logic working group University of Udine, Italy Presentation title: Effectiveness and strong graph indivisibility	Feb 21, 2025
XXVIII AILA logic meeting 2024 University of Udine, Italy Presentation title: Reverse mathematics and dimension of posets	Sep 5, 2024
Models, sets and classifications PRIN meeting University of Udine, Italy Presentation title: Classifying the pigeonhole property	Sep 2, 2024
Logic colloquium 2024 University of Gothenburg, Sweden Presentation title: Largeness notions	Jun 26, 2024
Logic working group University of Udine, Italy Presentation title: Transfinite Ramsey theorem	Jun 14-21, 2024
Connecticut logic seminar UConn, Storrs, Connecticut, US (Invited) Presentation title: Reverse mathematics and dimension of posets	Feb 20, 2024
Computability seminar CUNY graduate center, New York, US (Invited) Presentation title: Largeness notions	Feb 16, 2024
Logic working group University of Udine, Italy Presentation title: Reverse mathematics and dimension of posets	May 12, 2023

Organizing activities

World logic day "Le macchine di Turing" University of Udine, Italy Local organizing committee	Jan 14, 2025
XXVIII AILA logic meeting University of Udine, Italy Local organizing committee	3-6 Sep, 2024
World logic day "Contare l'infinito" University of Udine, Italy Local organizing committee	Jan 13, 2023
Logic working group "Sets and computability in Udine", University of Udine, Italy Website management	Dec 2022 to Oct 2025

Memberships

AILA Associazione italiana di logica e sue applicazioni

UMI Unione matematica italiana

ASL Association for symbolic logic

Awards and grants

Proof Society 2025, Ghent, Belgium: Best student presentation award