

# Roberto Albesiano



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[roberto-albesiano](#)



## Education

- 2018 – 2024    ♦    **Ph.D. Mathematics, Stony Brook University**  
THESIS TITLE: *Degeneration techniques in several complex variables.*  
ADVISOR: Dror Varolin.
- 2016 – 2018    ♦    **M.Sc. Mathematics, University of Padua**  
THESIS TITLE: *Solutions of Liouville equations with non-trivial profile in dimension 4.*  
ADVISORS: Andrea Malchiodi (Scuola Normale Superiore), Paolo Ciatti.
- 2013 – 2016    ♦    **B.Sc. Physics, University of Padua**  
THESIS TITLE: *Representations of compact Lie groups and partial differential equations.*  
ADVISORS: Paolo Ciatti, Pieralberto Marchetti.

## Employment

- 2024 – present    ♦    **Postdoctoral Fellow**, Department of Pure Mathematics, University of Waterloo.
- 2018 – 2024    ♦    **Teaching Assistant**, Mathematics Department, Stony Brook University.

## Publications

- ♦ A degeneration approach to Skoda's division theorem  
*Math. Z.* **306**, 34 (2024), [10.1007/s00209-024-03435-6](#)
- ♦ Solutions of Liouville equations with non-trivial profile in dimensions 2 and 4  
*J. Differential Equations* 272 (2021), pp. 606-647, [10.1016/j.jde.2020.10.011](#)

## Talks

- Nov 2024    ♦    *Geometric Analysis Colloquium*, Fields Institute.
- Oct 2024    ♦    [Online Analysis Research Seminar](#).  
♦    *Topology and Geometry seminar*, University of Waterloo.
- June 2024    ♦    Short talk, *Junior Workshop in Several Complex Variables*, University of Wisconsin, Madison.
- Apr 2024    ♦    *Workshop on Kähler geometry and time frequency analysis*, Norwegian University of Science and Technology.

## Talks (continued)

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- Nov 2023    ♦   *KASS seminar*, Chalmers University of Technology.
- June 2023    ♦   Short talk, *Complex analysis and geometry: celebrating the 70+1th birthday of László Lempert*, Rényi Institute.
- ♦   Short talk, *Alpine meeting on nonpositive curvature in Kähler geometry*, Centre Paul Langevin CNRS.
- May 2023    ♦   Poster presentation, *2023 Midwest Several Complex Variables Conference*, Ohio State University.

## Teaching

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- Fall 2024    ♦   *Calculus I for Science*, MATH 127, lecturer.
- Spring 2024    ♦   *Applied Algebra*, MAT 312, recitation instructor.
- Fall 2023    ♦   *Applied Algebra*, MAT 312, recitation instructor.
- Fall 2022    ♦   *Calculus IV with Applications*, MAT 303, recitation instructor.
- Spring 2022    ♦   *Calculus III with Applications*, MAT 203, recitation instructor.
- Fall 2021    ♦   *Calculus I*, MAT 131, recitation instructor.
- Fall 2020    ♦   *Precalculus*, MAT 123, recitation instructor.
- Summer 2020    ♦   *Logic, Language and Proof*, MAT 200, grader.
- Spring 2020    ♦   *Calculus B*, MAT 126, recitation instructor.
- Fall 2019    ♦   *Overview of Calculus, with Applications*, MAT 122, recitation instructor.
- Spring 2019    ♦   *Calculus C*, MAT 127, grader.
- Fall 2018    ♦   *Logic, Language and Proof*, MAT 200, grader.

## Activities

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- 2023 – present    ♦   Reviewer for zbMATH Open.
- Spring 2021    ♦   Mentor in the *Directed Reading Program (DRP)* in Mathematics.
- 2020 – 2021    ♦   Co-organizer of the *American Graduate Student Algebraic Geometry Seminar (AGSAGS)*.

## Awards and scholarships

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- 2013 – 2018    ♦   *Galilean School of Higher Education*, scholarship.
- 2013    ♦   44<sup>th</sup> International Physics Olympiad, bronze medal.
- ♦   27<sup>th</sup> Italian Physics Olympiad, gold medal.
- 2012    ♦   43<sup>rd</sup> International Physics Olympiad, bronze medal.
- ♦   26<sup>th</sup> Italian Physics Olympiad, bronze medal.

## Languages

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- Italian    ♦   Mother tongue.

## Languages (continued)

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English    ◇    Excellent reading, writing and speaking competences.

French     ◇    Basic vocabulary and grammar, basic general understanding.