Roberto Albesiano

Department of Pure Mathematics
University of Waterloo, MC 6459
S200 University Avenue West
Waterloo, Ontario, Canada, N2L 3G1
https://math.uwaterloo.ca/~ralbesiano
roberto.albesiano@uwaterloo.ca
roberto.albesiano@gmail.com
0000-0002-8499-1731   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.

Apr 2024 ◇ *Workshop on Kähler geometry and time frequency analysis,* Norwegian University of Science and Technology.

Nov 2023 ◇ *KASS seminar,* Chalmers University of Technology.

Talks (continued)

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

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

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

Awards and scholarships

2013 – 2018	◇	Galilean School of Higher Education, scholarship.
2013	◇	44th International Physics Olympiad, bronze medal.
	◇	27th Italian Physics Olympiad, gold medal.
2012	◇	43rd International Physics Olympiad, bronze medal.
	◇	26th Italian Physics Olympiad, bronze medal.

Languages

| Italian | ◇ | Mother tongue. |
| English | ◇ | Excellent reading, writing and speaking competences. |

Languages (continued)

French   ◇   Basic vocabulary and grammar, basic general understanding.