Roberto Albesiano

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Education

2018 – *present*	◇ **Ph.D. Mathematics, Stony Brook University** (expected graduation: May 2024) 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

2018 – *present*	◇ **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 2023	◇ 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.

Activities

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

Teaching

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.

Awards and scholarships

2013 – 2018	◇ Galilean School of Higher Education, scholarship.
	On the model of Scuola Normale Superiore, the Scuola Galileiana di Studi Superiori (SGSS) is an institution of the University of Padova selecting, every year and with a competitive examination, 14 first-year students of scientific and engineering degrees at the University of Padova. The selected students are given free-of-charge room, board, study material, personal tutoring and a grant for study trips for the entire period of their studies, provided they achieve high results and take additional exams.
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.
French	◇ Basic vocabulary and grammar, basic general understanding.