

SILVIA GHINASSI

Curriculum Vitae et Studiorum

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Education

- Aug 2013 - Jul 2019 (expected) **Stony Brook University**, Stony Brook, NY. Advisor: Raanan Schul. Thesis title: “Higher order rectifiability via Reifenberg theorems for sets and measures”.
- Oct 2011 - Jul 2013 **Sapienza - Università di Roma**, Rome, Italy. Master’s degree in Mathematics, 110/110 cum laude. Thesis advisor: Corrado De Concini. Thesis title: “Korteweg-de Vries type equations and Lie algebras”.
- Oct 2008 - Jul 2011 **Sapienza - Università di Roma**, Rome, Italy. Bachelor’s degree in Mathematics. 110/110 cum laude. Thesis advisor: Adriano Pisante. Thesis title: “Brouwer and Schauder Theorems and applications”.

Research

My research interests lie in **Geometric Measure Theory** and **Harmonic Analysis**.

- 2018 *Sufficient conditions for $C^{1,\alpha}$ parametrization and rectifiability*. <https://arxiv.org/abs/1709.06015> (submitted).
- 2019 *$C^{m,\alpha}$ parametrizations and rectifiability*, with Sławomir Kolasiński, in preparation.
- 2019 *Menger curvatures and $C^{1,\alpha}$ rectifiability*, with Max Goering, in preparation

Seminar Talks

- March 2019 Worcester Polytechnic Institute **Analysis/PDE Seminar**, Worcester, MA
- December 2018 University of Fribourg/University of Bern **Geometric Analysis Seminar**, Fribourg, Switzerland
- November 2018 MIT **PDE/Analysis seminar**, Boston, MA
- October 2018 NYU **Geometry and Geometric Analysis working seminar**, New York, NY
- October 2018 University of Washington **Rainwater seminar**, Seattle, WA
- September 2018 Brown University **Analysis seminar**, Providence, RI
- September 2018 University of Minnesota **Analysis and PDE Working Seminar**, Minneapolis, MN

- May 2018 IMPAN **Geometric function and mapping theory seminar**, Warsaw, Poland
- April 2018 University of Connecticut **Analysis seminar**, Storrs, CT
- March 2018 Stony Brook **Analysis seminar**, Stony Brook, NY

Conference talks

- September 2019 Special Session on Analysis and Probability on Metric Spaces and Fractals, **AMS Sectional Meeting**, University of Wisconsin, Madison, WI
- April 2019 Special Session on Regularity Theory of PDEs and Calculus of Variations on Domains with Rough Boundaries, **AMS Sectional Meeting**, University of Connecticut, Hartford, CT
- March 2019 Contributed talk at **Conference** “Geometric and Harmonic Analysis 2019”, University of Connecticut, Storrs, CT
- March 2019 Special Session on Topics at the Interface of Analysis and Geometry, **AMS Sectional Meeting**, University of Hawaii at Manoa, Honolulu, HI
- September 2018 Special Session on Modern Quasiconformal Analysis and Geometric Function Theory, **AMS Sectional Meeting**, University of Delaware, Newark, DE
- June 2018 Contributed talk at **Conference** “Geometric measure theory and its connections”, Helsinki, Finland
- April 2018 Special Session on Regularity of PDEs on Rough Domains, **AMS Sectional Meeting**, Northeastern University, Boston, MA
- April 2018 Special Session on Analysis and Geometry in Non-smooth Spaces, **AMS Sectional Meeting**, Northeastern University, Boston, MA

Awards and honors

- June 2018 John W. Milnor Endowed Graduate Fund **Travel Award**
- September 2014 Award for top female graduates in 2013 at Sapienza University of Rome
- May 2014 Chairman’s Award for **Excellence in Teaching** by a First or Second Year Graduate Student

Languages

English (fluent), **Italian** (native), **Spanish** (competent), **French** (basic).

Teaching Experience

- Spring 2019 **Grader** for MAT 533 - Real Analysis II (Graduate class for Master in Teaching)
- Spring 2019 **Grader** for MAT 512 - Algebra for Teachers (Graduate class for PhD students)
- Fall 2018 **TA** for MAT 598 - Teaching Practicum (Graduate class for PhD students about teaching)
- Spring 2018 **TA** for MAT 125 - Calculus A
- Fall 2017 **TA** for MAT 122 - Overview of calculus, with applications
- Spring 2017 **Grader** for MAT 211 - Introduction to Linear Algebra (two sections)
- Fall 2016 **Grader** for MAT 532 - Real Analysis I (Graduate class for PhD students)
- Spring 2016 **TA** for MAT125 - Calculus A

- Fall 2015 **TA** for MAT 320 - Introduction to Analysis (Advanced undergraduate class)
- Spring 2015 **Grader** for MAT 550 - Real Analysis II (graduate class for PhD students)
- Fall 2014 **TA** for MAT 125 - Calculus A (two sections)
- Spring 2014 **TA** for MAT 126 - Calculus B (two sections)
- Fall 2013 **Grader** for MAT 511 - Fundamental Concepts of Mathematics (Graduate class for Master in Teaching)
- Fall 2013 **Grader** for MAT 515 - Geometry for Teachers (Graduate class for Master in Teaching)

Community and Extra-Curricular Activities

- Spring 2019 **Mentor** in the DRP (Directed Reading Program) in Math at Stony Brook University
- October 2016-May 2019 **Founder and organizer** of the Analysis Student Seminar at Stony Brook
- 2017-2018 **Teacher** for “Math in Jeans” high school program, Stony Brook
- 2016-2019 **Teacher** for Della Pietra High School Applied Math Program, Stony Brook
- October 2016-October 2018 **Founder and Treasurer/Secretary** of the AMS Student Chapter at Stony Brook
- March 2018 **Presenter** for the Long Island Women Diversity Summit, SUNY Old Westbury
- July 2016, July 2017 **Teacher** for the Summer Math Camp for high school students, Stony Brook
- Aug 2015-Aug 2017 Graduate Student **Representative** for the Stony Brook Math Department
- Spring 2015 **Instructor** for WISE (Women in Science and Engineering) Program at Stony Brook
- 2014-2015 **Co-organizer** of the Graduate Students Seminar, Stony Brook Math Department, Stony Brook
- Oct 2013- Jan 2016 GSO (Graduate Student Organization) **representative** for the math department, Stony Brook
- 2010-2013 Student **representative** (bachelor and master), Rome, Italy