

CURRICULUM VITAE

Sofia Tirabassi

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PROFESSIONAL EXPERIENCE:

01/2019-	Associate Professor (<i>universitetslektorer</i> -Docent) at the Stockholm University, Stockholm, Sweden.
08/2015-12/2020	Associate Professor (<i>førsteamanuensis</i>) at the University of Bergen, Bergen, Norway. I was in LOA 80% in 2019 and LOA 90% in 2020.
01/2013-07/2015	Postdoctoral Research Assistant Professor at the University of Utah, Salt Lake City (UT), USA.
03/2012-12/2012	Marie Curie Fellow at PLERCIM, Warsaw, Poland.

RESEARCH INTERESTS:

Algebraic and arithmetic geometry: derived categories, Fourier–Mukai transforms, moduli space of sheaves, abelian varieties, quasi-abelian varieties, generic vanishing theorems, irregular varieties.

PROJECTS, MERITS & AWARDS

2021-2023	Principal Investigator of the project <i>Unknown properties of abstract geometric objects</i> funded by the Knut och Alice Wallenberg Foundation under the scheme <i>Program for Mathematics - Internatioinal Postdoctoral Scholar</i> . The project's budget is of SEK 1800K.
2017-2021	Manager of the project <i>The arithmetic of derived categories</i> funded by the Research Council of Norway under the scheme FRINATEK. The project's budget is of NOK 7390K.
2017	Research Grant of NOK 130K awarded by the University of Bergen.
2015	AWM-NSF Travel Grant.
2014	Outstanding Postdoc Award of the Department of Mathematics of the University of Utah.
2013	AMS - Simons Travel Grant.
2013	AWM-NSF Mentoring Travel Grant, and Travel Grant.

EDUCATION:

- 09/2008-02/2012 Ph.D. in Mathematics at Università degli Studi Roma TRE, Rome, Italy.
 10/2006-07/2008 *Laurea Specialistica* (M.Sc.) in Mathematics at the University of Bologna, Bologna, Italy.
 10/2002-07/2006 *Laurea* (B.Sc.) in Mathematics at the University of Bologna, Bologna, Italy.

CAREER INTERRUPTIONS:

- 11/2019-06/2020 Maternity Leave.
 08/2020-12/2020 Maternity Leave.

PUBLICATIONS:

- [13] E. Ferrari, S. Tirabassi, and M. Vordrup, *On the Brauer group of bielliptic surfaces*, 2019. Preprint. Available at ArXiv:1910.12537. Appendix by J. Bergström and S. Tirabassi. To appear in Documenta Mathematica.
 [12] R. Laface, and S. Tirabassi, *On ordinary Enriques surfaces in positive characteristic*, Nagoya Math. J. 2020. DOI: 10.1017/nmj.2020.36. Preprint available at ArXiv:1908.09700.
 [11] M. Øygarden and S. Tirabassi, *Theta-regularity and log-canonical threshold*, MATHEMATICA SCANDINAVICA, 126(1), 73-81. <https://doi.org/10.7146/math.scand.a-115971>. Preprint available at ArXiv:1806.00326v2.
 [10] K. Honigs, M. Lieblich, and S. Tirabassi, *Fourier-Mukai partners of Enriques and bielliptic surfaces in positive characteristic*, 2017. Preprint. Available at ArXiv:1708.03409. To appear on Mathematical Research Letters.
 [9] K. Honigs, L. Lombardi, and S. Tirabassi, *Derived Equivalences of canonical covers of hyperelliptic and Enriques surfaces in positive characteristic*, Math. Z. 2019. DOI: 10.1007/s00209-019-02362-1
 [8] S. Tirabassi, *A note on the derived category of Enriques surfaces in characteristic 2*, Bollettino dell'Unione Matematica Italiana, 2016. DOI:10.1007/s40574-016-0100-2.
 [7] L. Lombardi, and S. Tirabassi, *Deformations of minimal cohomology classes*, 2014. Published on line on Communications in Contemporary Mathematics. DOI:10.1142/S0219199715500662.
 [6] L. Lombardi, and S. Tirabassi, *GV-subschemas and their embeddings in principally polarized abelian varieties*, 2014. Published on line on Mathematische Nachrichten. DOI:10.1002/mana.201400238.
 [5] Z. Jiang, M. Lahoz, and S. Tirabassi, *Characterization of products of theta divisors*, Compositio Mathematica, 2014. DOI:10.1112/S0010437X13007884.
 [4] S. Tirabassi, *Szygies and equations of Kummer Varieties*, Bulletin of the London Mathematical Society, 2013. DOI:10.1112/blms/bds117.
 [3] Z. Jiang, M. Lahoz, and S. Tirabassi, *On the litaka fibration of varieties of maximal Albanese dimension*, International Mathematics Research Notices, 2985–3005, 2013. DOI:10.1093/imrn/rns131.
 [2] S. Tirabassi, *On the tetracanonical map of varieties of general type and maximal Albanese dimension*, Collectanea Mathematica (63), 345–349, 2012. DOI: 10.1007/s13348-011-0059-3.
 [1] A. Bernardi, and S. Tirabassi, *Derived Categories of Fano Toric 3-folds via Frobenius Morphism*, Le Matematiche, LXIV, no. II, 117–154, 2010.

PREPRINTS:

- [3] M. Mendes Lopes, R. Pardini, and S. Tirabassi *A footnote to a theorem of Kawamata*, 2022. To appear on Math. Nach. Available at ArXiv:2210.11776

- [2] M. Mendes Lopes, R. Pardini, and S. Tirabassi *Effective characterizations of quasi-abelian surfaces*, 2022. To appear on Forum Math. Sigma. Available at ArXiv:2206.05464
- [1] T. Srivastava, S. Tirabassi *Counting Twisted Tame Fourier-Mukai Partners of an Ordinary K3 Surface*, 2021. To appear on MRL. Available at ArXiv:2109.03545

CONFERENCES & COLLOQUIA PRESENTATIONS:

09/2023	Minicourse at the school <i>K3 surfaces, hyperkähler manifolds, and cubic fourfolds</i> . Hausdorff Research Institute for Mathematics, Bonn, Germany.
09/2023	<i>Ricercatori in Algebra e Geometria 2023</i> . Rome, Italy.
08/2023	<i>Workshop in algebraic geometry</i> . Stavanger, Norway.
07/2022	<i>The fourth Killing–Weierstrass Colloquim</i> . Gdansk, Poland.
06/2022	<i>Birational Geometry conference</i> . EPFL Lausanne, Switzerland.
06/2022	<i>Classical Elegance: the geometry of algebraic varieties</i> . Cortona (AR), Italy.
09/2020	2019 BIRS workshop - <i>Derived Categories and Birational Geometry</i> . BIRS, Banff, Canada.
06/2019	2019 MRC - <i>Explicit Methods in Arithmetic Geometry in Characteristic p</i> (external advisor), Whispering Pines Conference Center, Greenwich, Rhode Island, USA.
09/2018	National Mathematicians Meeting, Bergen, Norway (invited speaker in the parallel sessions).
04/2018	Colloquium at the Université libre de Bruxelles, Bruxelles, Belgium.
04/2018	<i>Crystals and Geometry in Characteristic p</i> , Technical University of Munich, Munich, Germany.
12/2017	<i>FRG Workshop</i> , Pennsylvania State University, State College (PA), USA.
11/2017	<i>Algebraic Geometry with “Fancy” coefficients</i> , Université de Caen - Normandie, Caen, France.
11/2017	National Algebra meeting, University of Oslo, Oslo, Norway.
09/2017	<i>Vector Bundles on Algebraic Curves 2017</i> , University of Duisburg-Essen, Essen, Germany.
09/2016	Workshop: <i>Higher Dimensional Birational Geometry and Characteristic p</i> , CIRM, Luminy, France.
06/2016	Nordic Number Theory Network Days IV, University of Copenhagen, Copenhagen, Denmark.
03/2016	27th Nordic Congress of Mathematicians, Mittag-Leffler Institute, Stockholm, Sweden.
11/2015	National Algebra meeting, University of Oslo, Oslo, Norway.
07/2015	AMS Summer Research Institute on Algebraic Geometry, University of Utah, Salt Lake City (UT), USA.
03/2015	AMS Central Spring Sectional Meeting, Michigan State University, East Lansing (MI), USA.
12/2014	Colloquium at the University of Arkansas, Fayetteville (AK), USA.
11/2014	Colloquium at the University of Bergen, Bergen, Norway.
10/2014	AMS Western Sectional Meeting, San Francisco University, San Francisco (CA), USA.
06/2014	Colloquium at the University of Stavanger, Stavanger, Norway.
10/2013	Western Algebraic Geometry Symposium, University of Idaho, Moscow (ID), USA.
12/2012	IMPANGA, IMPAN, Warsaw, Poland.
11/2012	Forum des jeunes mathématicien-ne-s 2012, Institute Henri Poincaré, Paris, France.
05/2012	Giornate di Geometria Algebrica ed Argomenti Correlati (Days in Algebraic Geometry and Related Subjects), Centro di Ricerca Matematica Ennio De Giorgi, Pisa, Italy.
09/2011	XIX Conference of the Italian Mathematical Union, University of Bologna, Bologna, Italy.
12/2010	<i>Workshop of Algebraic Geometry</i> , Università degli Studi di Milano, Milan, Italy.

SELECTED SEMINAR TALKS:

12/2022	Instituto Superior Técnico, Lisboa, Portugal.
10/2022	Università degli studi di Torino, Torino, Italy.
09/2022	University of Georgia, Atlanta (GA), USA.
11/2021	Institute Mittag Leffler, Djursholm, Sweden.
10/2020	Tata Institute Bombay, India.

09/2019	Uppsala University, Uppsala, Sweden.
05/2019	IST Austria, Wien, Austria.
03/2019	Uppsala University, Uppsala, Sweden.
02/2019	Stockholm Mathematics Center, Stockholm, Sweden.
11/2018	Artic University of Norway, Tromsø, Norway.
04/2018	Chalmers University of Technology, Gothenburg, Sweden.
03/2018	University of Amsterdam, Amsterdam, Netherlands.
06/2017	Università degli Studi di Padova, Padova, Italy.
02/2017	ETH Lausanne, Lausanne, Switzerland.
07/2016	Università degli Studi di Pisa, Pisa, Italy.
06/2016	Università degli Studi Roma TRE, Rome, Italy.
05/2016	University of Regensburg, Regensburg, Germany.
05/2016	University of Leuven, Leuven, Belgium.
04/2016	University of Oslo, Oslo, Norway.
10/2015	KTH, Stockholm, Sweden.
06/2015	University of Washington, Seattle (WA), USA.
04/2015	Stonybrook University, New York (NY), USA.
09/2014	Colorado State University, Fort Collins (CO), USA.
09/2014	Rice University, Houston (TX), USA.
06/2014	University of Stavanger, Stavanger, Norway.
04/2012	University of Illinois at Urbana–Champaign, Urbana (IL), USA.
01/2014	University of California at San Diego, San Diego (CA), USA.
11/2013	Ohio State University, Columbus (OH), USA.
10/2013	CIMAT, Guanajuato, Mexico.
11/2012	Jagellonian University of Krakow, Krakow, Poland.
04/2012	University of Bologna, Bologna, Italy.
01/2012	CIMAT, Guanajuato, Mexico.
01/2012	Università degli Studi di Padova, Padua, Italy.
12/2011	Università degli Studi di Torino, Turin, Italy.
03/2010	Università di Roma “La Sapienza”, Rome, Italy.

SHORT VISITS:

01/2018	Università degli studi di Pisa, Italy.
07/2014	Mathematics Institute University of Bonn, Germany.
10/2013	CIMAT, Guanajuato, Mexico.
05/2013	University of Illinois at Chicago, Chicago (IL), USA.

SUPERVISION:

Postdoc	<i>Tuomas Tajakka</i> , Stockholm University, Since July 2021.
Postdoc	<i>Giorgio Scattareggia</i> , UiB, September 2017-August 2019.
Ph.D.	<i>Magnus Vodrup</i> , UiB, October 2017-August 2021.
Ph.D.	<i>Eugenia Ferrari</i> , UiB, August 2016-May 2021. Current position: Associate professor at Universitete i Vestlandet
<i>Laurea Magistrale</i>	<i>Flavio Blondeau</i> , University of Trento (Italy), graduated in July 2018.
Master Degree	<i>George Muselli</i> , Stockholm University, current.
Master Degree	<i>Morten Øygarden</i> , UiB, graduated in June 2018.
<i>Kandidat</i>	<i>Eric Bergström</i> , Stockholm University (Sweden), graduated in August 2022.
<i>Kandidat</i>	<i>Lukas Horosiewicz</i> , Stockholm University (Sweden), graduated in January 2022.

<i>Kandidat</i>	<i>Jelena Petkovich</i> , Stockholm University (Sweden), graduated in June 2019.
<i>Licence</i>	<i>Morgane Arnaud</i> , Toulouse University (France), graduated in July 2018.
<i>Bacheloroppgaver</i>	<i>Sindre Eik</i> , UiB, Spring 2015.
<i>REU</i>	<i>Curtis Huston</i> , University of Utah, Fall 2014.

TEACHING EXPERIENCE:

Spring 2023	Introduction to abelian varieties (PhD course) at the Stockholm University, Stockholm, Sweden. Mathematical Methods for economist at the Stockholm University, Stockholm, Sweden. Logic at the Stockholm University, Stockholm, Sweden.
Fall 2022	Mathematical Methods for economist at the Stockholm University, Stockholm, Sweden. Combinatorics at the Stockholm University, Stockholm, Sweden. Seminar leader of one of the Matematik I seminar at Stockholm University.
Spring 2022	Logic at the Stockholm University, Stockholm, Sweden. Seminar leader of one of the Matematik II för Naturvetenskap at the Stockholm University, Stockholm.
Fall 2021	Mathematical Methods for economist at the Stockholm University, Stockholm, Sweden. Combinatorics at the Stockholm University, Stockholm, Sweden. Seminar leader of one of the Matematik I för Naturvetenskap at the Stockholm University, Stockholm.
Spring 2021	Matematik I för Naturvetenskap at the Stockholm University, Stockholm, Sweden. Seminar leader of one of the Matematik I för Naturvetenskap seminar at Stockholm University.
Fall 2019	Topology at the Stockholm University, Stockholm, Sweden. Seminar leader of one of the Matematik I seminar at Stockholm University.
Spring 2019	Topology at the Stockholm University, Stockholm, Sweden. Matematik II: Algebra och Kombinatorik at the Stockholm University, Stockholm, Sweden.
Fall 2018	Algebraic Geometry II at the University of Bergen, Bergen, Norway.
Spring 2018	Algebra at the University of Bergen, Bergen, Norway. Fourier-Mukai Transforms in Algebraic Geometry at the University of Bergen, Bergen, Norway. Deformation of Schemes at the University of Bergen, Bergen, Norway.
Fall 2017	Real Analysis at the University of Bergen, Bergen, Norway.
Spring 2017	Algebra at the University of Bergen, Bergen, Norway. Fourier-Mukai Transforms in Algebraic Geometry at the University of Bergen, Bergen, Norway.
Fall 2016	Algebraic Geometry II at the University of Bergen, Bergen, Norway.
Spring 2016	Algebra at the University of Bergen, Bergen, Norway.
Fall 2015	Commutative Algebra at the University of Bergen, Bergen, Norway.
Spring 2015	Math 3210 (Foundations of Analysis 1) at the University of Utah, Salt Lake City (UT), USA.
Fall 2014	Math 2280 (Introduction to Differential Equations) at the University of Utah, Salt Lake City (UT), USA.
Summer 2014	T.A. training at the University of Utah, Salt Lake City (UT), USA.
Spring 2014	Math 2200 (Discrete Mathematics) at the University of Utah, Salt Lake City (UT), USA.
Fall 2013	Math 2270 (Linear Algebra) at the University of Utah, Salt Lake City (UT), USA.
Spring 2013	Math 1060 (Trigonometry) at the University of Utah, Salt Lake City (UT), USA.
Fall 2011	T. A. for GE310 (covering spaces, homotopy, homology) at Università degli Studi Roma TRE, Rome, Italy.
Fall 2010	T. A. for GE03 (general topology, topological manifolds, classification of compact topological surfaces) at Università degli Studi Roma TRE, Rome, Italy.

APPOINTMENTS/BOARD PARTICIPATION:

- 2023 Member Committee of Jeroen Hekking PhD dissertation (KTH)
Member Committee of Sammy Souleimani PhD dissertation (University of Stavanger)
Organizer of the Algebra and geometry seminar of the Stockholm Mathematical Center
EWM country coordinator.
- 2022 Chair of the committee of the SMC Excellent Doctoral Thesis Award.
Organizer of the Algebra and Geometry seminar at the Stockholm Mathematical Center.
Member Committee of Elin Westin Persson PhD dissertation (University of Uppsala)
Country coordinator EWM.
- 2021 Member of the organizing committee of the conference *The arithmetic and geometry of varieties with trivial canonical bundle*, held at the Soria Moria Hotel in Oslo (Norway).
Member of the committee of Luigi Pagano PhD dissertation. (University of Copenhagen)
Chair of the external committee in the hiring committee of an associate professor at the University of Stavanger
Member of the committee of the SMC Excellent Doctoral Thesis Award.
Country coordinator EWM.
- 2020 Member of the committee of the SMC Excellent Doctoral Thesis Award.
Country coordinator EWM.
- 2019 External member of the committee for the hiring of one temporary associate professor (*førsteamanuensis vikar*) at the University of Stavanger.
Member of the committee of the SMC Excellent Doctoral Thesis Award.
Committee member in Ph.D. defense at University of Stavanger.
Member of the organizing committee of the conference *Derived Categories and Geometry in Positive Characteristic* at IMPA, Warsaw (Poland).
- 2018 Member of the hiring for one Ph.D. position.
Member of the organizing committee of the workshop *The Arithmetic of Derived Categories* at CIRM, Trento (Italy).
Research Group Leader for the Algebraic Geometry Group at UiB during the Spring semester.
- 2017 Committee member in a Ph.D. defense at UiB.
Member of the *institutttrådet* (department council) of UiB.
Member of the hiring for one postdoc position.
Member of the hiring for one Ph.D. position.
Member of the hiring committee for filling an open tenure-track position at UiB.
Member of the organizing committee of the 2017 Abel Symposium.
Research Group Leader for the Algebraic Geometry Group at UiB during the Spring semester.
Member of the organizing committee of the Open Day at UiB.
- 2016 Committee member in Ph.D. defense at KTH.
Member of the hiring for one postdoc position.
Committee member in Ph.D. defense at UiB.
Deputy Research Group Leader for the Algebraic Geometry Group at UiB.
Speaker at Ph.D. Day an initiative of the Mathematics Department of UiB to help Ph.D. students toward a career in academia.
- 2014 Speaker at Science Day an initiative of the College of Science of the University of Utah to attract high-school students to STEM majors.

MEMBERSHIPS & SERVICE:

- Referee for peer-reviewed journals (e. g. Math Z, JAG, Documenta Mathematica).
- Swedish Mathematical Society (lifetime member), Norwegian Mathematical Society (lifetime member), EMS (European Mathematical Society). UMI (Italian Mathematical Union), EWM (European Women in Mathematics - country coordinator).