

## CURRICULUM VITAE

Lucia Caporaso  
Born in Roma, Italy, on May 22, 1965  
Married with two children (born 1998 and 2000).

### **Current Employment:**

Professor of Mathematics  
Department of Mathematics and Physics - Roma Tre University - Roma - Italy.

### **Education:**

- Laurea in Matematica *con lode* - Sapienza Università di Roma - 1989  
(Undergraduate Advisor: Prof. Enrico Arbarello).
- Ph.D. in Mathematics - Harvard University - 1993  
(Ph.D. Advisor: Prof. Joe Harris).

### **Languages:**

- *Mother tongue:* Italian
- *Other languages:* English (fluent), French (fluent), German (elementary).

### **Professional Experience:**

- Benjamin Pierce Assistant Professor of Mathematics, Harvard University, Cambridge, USA, 1993-97.
- Ricercatore Universitario, Università di Roma Tor Vergata, Italy. 1994-97  
(On leave for scientific reasons for 12 months).
- Assistant Professor of Mathematics, Massachusetts Institute of Technology, Cambridge, USA. 1997-2001 (Maternity leave 6+6 months).
- Associate Professor (Professore Associato), Università del Sannio, Benevento, Italy. 1999-2001. (Maternity leave 12 consecutive months).
- Professor of Mathematics (Professore Ordinario - SSD MAT/03 - SC A1/02), Roma Tre University, Roma, Italy. Since 2001.

### **Long Term Visiting Positions:**

- Sapienza, Università di Roma Italy (September-December 1998).
- Università di Roma, Roma TRE, Italy (May 1999).
- IRMA, Université de Strasbourg, France (October-December 2000).
- Université de Nice, France (February-May 2001).
- MSRI, Berkeley, USA (January-April 2009 and January-May 2019).

### Academic Distinctions:

- *Sloan* foundation doctoral fellow, 1992-93.
- *Sloan* foundation post-doctoral research fellow, 1994-97.
- Invited speaker, *AMS* symposium on Algebraic Geometry, Santa Cruz 1995.
- Invited speaker, *ECM* (European Congress of Math.) Budapest 1996.
- Prize *Bartolozzi*, *UMI (Unione Matematica Italiana)* 1997.
- Plenary Speaker, *XX Journées Arithmétiques*, Univ. de Limoges 1997.
- Medaglia “*Le Scienze*” for Mathematics, 2000.
- Invited speaker, *AMS* symposium on Algebraic Geometry, Seattle 2005.
- Invited speaker, *AMS* symposium on Algebraic Geometry, Salt Lake City 2015.
- Plenary speaker, Congresso *UMI.*, Univ. of Siena 2015.
- Plenary Speaker, 31st *Brazilian Math. Colloquium*, IMPA Rio de Janeiro 2017.
- Invited speaker - *ICM* (International Congress of Math.) Rio de Janeiro 2018.
- Eisenbud Professor, *MSRI* 2019.
- Socio Corrispondente dell’*Accademia delle Scienze*, Torino - Since 2019.

### Research Awards (selection):

- Principal Investigator in NSF Award N. 9505140 (National Science Foundation, USA) Title *Kodaira Dimensions of Fiber Products and the Distribution of Rational Points* - 1995-1997
- Principal Investigator in NSF Award N. 9801465 (National Science Foundation, USA) Title *Linear Systems of Plane Curves With Assigned Singularities*-1998-2001
- Italian Chair of GDRE-GRIFGA “Gruppo Di Ricerca Europeo: Gruppo di Ricerca Italo Francese in Geometria Algebrica”. 2008-2012 (French Chair: Prof. Olivier Debarre) Funded by INdAM and CNRS.
- Member of PRIN 2000 - MM01A72181 (National Chair: Alessandro Verra).
- Member of PRIN 2002 - 2002012934 (National Chair: Alessandro Verra).
- Member of PRIN 2004 - 2004017037 (National Chair: Alessandro Verra).
- Member of PRIN 2006- 2006011222 (National Chair: Alessandro Verra).
- Member of PRIN 2008- 2008F3Z77Z (National Chair: Alessandro Verra).
- Member of PRIN 2010- 2010S47ARA (National Chair: Alessandro Verra).
- Member of PRIN 2015- 2015EYPTSB (National Chair: Alessandro Verra).
- Principal Investigator of PRIN 2017 - 2017SSNZAW. Title *Advances in Moduli Theory and Birational Classification*. 2017-current.
- Roma Tre Chair of PRIN 2022 - 2022L34E7W. Title *Moduli Spaces and Birational Geometry*. 2022-current.

### **Editorial Activity:**

- *Transactions of the American Mathematical Society* - AMS (2015-2021).
- *Memoirs of the American Mathematica Society* - AMS (2015-2021).
- *Algebraic Geometry* - Foundation Compositio Mathematica (current).
- *Rendiconti del Circolo Matematico di Palermo* - Springer (current).
- *Lecture Notes of the Unione Matematica Italiana*, Editor in Chief - Springer (current).
- *Bulletin of the Brazilian Mathematical Society - New Series* - Springer (current).
- *Forum of mathematics, Pi* - Cambridge University Press (current).
- *Forum of mathematics, Sigma* - Cambridge University Press (current).

### **Selected Academic Services (International):**

- Member of Review Panels in mathematics for the USA National Science Foundation (NSF). 2003, 2004, 2005, 2007, 2010.
- Member of *Exzellenzinitiative Panel* for the Deutsche Forschungsgemeinschaft (DFG) - Germany. 2006.
- Member of Italian Delegation at the International Mathematical Union (IMU) General Assembly in Bangalore India. 2010.
- Member of Mathematics Evaluation Panels for the Swedish Research Council (SRC) - Sweden, 2011 - 2015.
- Member of *Scientific Advisory Board of Max Planck Institute for Mathematics and the Sciences* - Germany. 2018-2022.
- Member of ERC Advanced Grant Panel for European Commission - 2022.
- Member of Italian Delegation at the International Mathematical Union (IMU) General Assembly in Sao PauloBrazil. 2018.
- Member of Hiring Committees for Professorships in Mathematics for: *KTH* (Stockholm), *ICTP* (Trieste), *University of Bergen*, *Harvard University* (Cambridge MA), *ETH* (Zurich).

### **Selected Academic Services (Italian):**

- Chair of Ph.D. Program in Mathematics at Roma Tre Univ. 2002-2006.
- Member of ANVUR Group of Experts for Mathematics, GEV01, in the National Evaluation of Research. 2012-2013.
- Head of Dept. of Mathematics and Physics at Roma Tre Univ. 2013 - 2018.
- Chair of Board of Directors of Roma Tre Univ. 2013-2015.
- Member of Academic Senate of Roma Tre Univ. 2015-2018.
- Member of Administrative Council of Roma Tre Univ. 2019-2022.
- Member of Hiring Committees for Professorships in Mathematics for the Universities of: *Perugia, Sapienza (Roma), Torino, Firenze, Roma Tre.*

### **Outreach activities (selection)**

- Editor of *Maddmaths! (Matematica Divulgazione Didattica)* 2013-2018.
- Contribution to *Pink Camp* - Univ. L'Aquila 2019.
- Contribution to *Corsi d'Orientamento della Scuola Normale Superiore* on line (do to pandemic) 2020.
- Contribution to *ASL (Alternanza Scuola Lavoro)* Roma Tre University 2019, 2021.
- Member of the scientific board of LYSM (Laboratoire Ypatia des Sciences Mathématiques) since 2022.

### Teaching:

- Harvard University 1993-1997
  - Undergraduate courses: Calculus. Algebra. Undergraduate Algebraic geometry. Complex Analysis. Topology.
  - Graduate courses: Geometric Invariant Theory. Graduate Algebraic geometry.
- Massachusetts Institute of Technology 1997-1999
  - Undergraduate courses: Analysis on Manifolds. Linear Algebra.
  - Graduate courses: Complex Algebraic Surfaces.
- Roma Tre University 2001-2023
  - Undergraduate courses: Algebra. Algebra Lineare. Analisi Complessa. Analisi Funzionale. Geometria Algebrica. Superfici di Riemann. Teoria dei Grafi. Teoria dei Gruppi. Topologia Generale. Topologia Algebrica.
  - Graduate courses: Geometria Algebrica. Superfici algebriche e Geometria Enumerativa. Teoria dell'Intersezione. Teoria dei Moduli. Fondamenti e storia della geometria.

### Supervision of juniors:

- More than 20 master theses, more than 10 PhD theses, more than 10 postdocs.

### Special Courses and Lecture Series (selected):

- *EAGER school on Moduli of Curves*  
Levico - Trento, August 2001.
- *School "Pragmatic" 2004*  
Università di Catania - August/September 2004.
- *School "Compactified Jacobians"*  
Istituto Superiore Tecnico - Lisbon- February 2010.
- *GAEL 2011 "Brill Noether theory"*  
Konrad-Zuse-Zentrum - Freie Universität - Berlin- July 2011.
- *Summer School Gulbenkian Foundation "What is algebraic geometry?"*  
Lisbon 14 to 18 July 2014.
- *WAM2015 "Aspects of Algebraic Geometry - Moduli space of Curves"*  
Institute for Advanced Study - Princeton USA- May 2015.

- *Geometry, Algebra and Combinatorics of Moduli Spaces and Configurations*  
 “Combinatorics of moduli spaces of curves”  
 Dobbiaco - Italy - February 2017.
- *New perspectives in Gromov-Witten theory* “From quantum cohomology to moduli of spin curves”  
 IMJ-PRG Sorbonne Université - Paris - June 2019.

**General Audience Lectures (selection):**

1. Conference *Women in Sciences*  
 Title: “Magical pairs of conics”.  
 Tor Vergata University - Villa Mondragone Frascati - 2005.
2. Program *I lincei per la scuola*  
 Title: “Geografia dei numeri”.  
 Accademia dei Lincei - Roma - 2011.
3. *Corso d'Orientamento della Scuola Normale Superiore*  
 Title: “Geografia dei numeri”.  
 SNS Pisa - Cortona - 2011.
4. *Corso d'Orientamento della Scuola Normale Superiore*  
 Title: “Geometria Enumerativa”.  
 Accademia dei Lincei - Roma - 2019.
5. *I Mercoledì dell'Accademia*  
 Title: “Varietà di varietà: La classificazione nella geometria algebrica.”  
 Accademia delle Scienze - Torino - 2020.
6. *May 12 - Celebrating Women in Mathematics*  
 Title: “Varieties of Varieties after Mirzakhani.”  
 Tor Vergata University - Roma - 2020.

**Invited Addresses (selection):**

1. *Workshop Moduli of Curves and Abelian Varieties*  
MSRI-Berkeley USA - 1992.
2. *Conference "Topology of the Moduli Space of Curves"*  
RIMS -Kyoto - Japan - 1993.
3. *The moduli space of curves*  
Texel Island - The Netherlands - 1994.
4. *Incontro Italiano di Teoria dei Numeri*  
Roma Tre University - Italy - 1995.
5. *AMS Summer Research Institute on Algebraic Geometry*  
University of Santa Cruz - USA - 1995.
6. *Conference "Superficie algebriche"*  
Accademia Nazionale dei Lincei di Roma, Italy - 1996.
7. *Second European Congress of Mathematicians*  
Budapest - Hungary - 1996.
8. *Europroj Annual Conference.*  
University of Liverpool - U.K - 1996.
9. *Journées Arithmétiques 1997.*  
Université de Limoges - France - 1997.
10. *Midwestern Algebraic Geometry Conference.*  
Northwestern University - USA - 1998.
11. *Conference "Advanced Algebraic Geometry"*  
ICTP - Trieste - Italy -1999.
12. *Workshop "Low-dimensional complex geometry"*  
Oberwolfach - Germany - 1999.
13. *Second Conference on Intersection Theory*  
Università of Bologna - Italy -1999.
14. *Géométrie Algébrique Complexe*  
Luminy - France - 2000.
15. *ALGA 2001" 4th Brazilian meeting in Commutative Algebra and Algebraic Geometry.*  
Angra dos Reis - Brasil - 2001.

16. *Conference in honor of Steven Kleiman 60th birthday*  
IMPA - Rio de Janeiro - Brasil - 2002.
17. *The Fano Conference*  
Torino - Italy - 2002.
18. *Moduli, Lie Theory, Interactions With Physics*  
Cortona - Italy - 2003.
19. *Projective varieties with unexpected properties: In honor of Giuseppe Veronese*  
Università di Siena - Italy - 2004.
20. *Conference "Diophantine Geometry"*  
University of Goettingen - Germany - 2004.
21. *Algebraic Geometry, Symplectic Geometry and Theoretical Physics: a conference celebrating the contribution of women researchers*  
University of Philadelphia - USA - 2005.
22. *AMS Summer Research Institute on Algebraic Geometry*  
University of Seattle - USA - 2005.
23. *Introductory Workshop in Rational and Integral Points*  
MSRI Berkeley - USA - 2006.
24. *Mathematics and its Applications - Special Session in Algebraic Geometry*  
University of Torino - Italy - 2006
25. *Topology of Complex Algebraic Varieties.*  
Università di Alghero - Italy - 2006.
26. *Conference on Curves and Abelian Varieties, in honor of Roy Smith's 65th birthday.*  
Athens - USA - 2007.
27. *Conference in Algebraic Geometry, in honor of Arnaud Beauville's 60th birthday.*  
IHP Paris - France - 2007.
28. *Algebraic geometry in higher dimensions*  
Levico- Italy - 2007
29. *Aspects of moduli.*  
Centro de Giorgi, Scuola Normale Superiore Pisa - Italy - 2008.



30. *Conference in Algebraic Geometry.*  
Lorentz Institute - Leiden - The Netherlands - 2008.
31. *Conference “Algebraic Geometry D-modules and foliations”.*  
University of Buenos Aires - Argentina - 2008.
32. *Conference “Moduli Spaces of Geometric and Algebraic Structures”.*  
Max Plank Institute - Bonn - Germany 2008.
33. *North German Algebraic Geometry Seminar.*  
Humboldt University - Berlin - Germany 2008.
34. *Conference “Connections for Women”*  
Mathematical Sciences Research Institute Berkeley U.S.A 2009.
35. *Workshop “Orbifolds and moduli spaces in tropical geometry”.*  
Les Diablerets - Switzerland- 2010.
36. *Congrès de Géométrie Algébrique.*  
IHP Paris - France- July 2010.
37. *Algebraic Geometry North Eastern Seminar (AGNES).*  
MIT - USA 2011.
38. *A celebration in Algebraic Geometry, in honor of Joe Harris 60th birthday.*  
Harvard University - USA - 2011.
39. *Tropical Geometry Workshop.*  
CIEM Castro-Urdiales - Spain - 2011.
40. *Geometry and Topology of Moduli.*  
Humboldt University - Berlin - Germany 2012.
41. *Géométrie Algébrique en Liberté (GAEL) XX.*  
Université de Grenoble - France - 2012.
42. *Conference in Algebraic and Complex Geometry in honor of Klaus Hulek 60th Birthday.*  
Leibniz Universität - Hannover - Germany - 2012.
43. *Effective methods in Algebraic Geometry (MEGA).*  
University of Frankfurt - Germany- 2013.
44. *Geometria in Bicocca.*  
University of Milano Bicocca - Italy - 2014.

45. *Congresso Unione Matematica Italiana*  
University of Siena - Italy - 2015.
46. *AMS Algebraic Geometry Symposium in algebraic geometry*  
University of Utah - Salt Lake City - USA -2015.
47. *AGNES 2016*  
Yale University - USA - 2016.
48. *First Joint Meeting Brasil-Italy in Mathematics*  
IMPA Rio de Janeiro - Brasil - August - 2016.
49. *31st Brazilian Mathematics Colloquium*  
Rio de Janeiro - Brasil - 2017.
50. *Modern Algebra and Classical Geometry - Together with Edoardo Sernesi.*  
Trento - Italy- 2017.
51. *Algebraic Geometry Conference - Arnaud Beauville's 70th Birthday.*  
Academy of Mathematics and System Sciences, CAS, Beijing - China - 2017.
52. *Workshop on Complex Algebraic Geometry - Pirola 60th Birthday.*  
University of Barcelona - Barcelona - Spain - 2018.
53. *International Congress of Mathematicians.*  
Rio de Janeiro - Brazil - 2018.
54. *Conference Connections for Women*  
Mathematical Sciences Research Institute - Berkeley U.S.A - 2019.
55. *Colloquium Patavina*  
University of Padova - 2021.
56. *Conference Ypatia 2022*  
École française de Rome - Roma 2022
57. *Colloquium INdAM*  
Istituto Nazionale di Alta Matematica - Roma 2022.
58. *Colloquium De Giorgi*  
Scuola Normale Superiore - Pisa 2022.
59. *Winter Meeting in Algebra and Geometry*  
Università Roma Tre - Roma 2022

## Organization of conferences

1. *Perspectives in Classification and Moduli Theory*  
October 2002. Cortona - Italy  
<http://ricerca.mat.uniroma3.it/Conferenze/cortonaPCMT/index.html>
2. *Classical Algebraic Geometry Today*  
January 2009. MSRI - USA  
<http://www.msri.org/workshops/470>
3. *Moduli Spaces in Algebraic Geometry*  
February 2013. Oberwolfach - Germany
4. *Introductory Workshop on Combinatorial Algebraic Geometry*  
August 15-19, 2016. Fields Institute -Toronto - Canada
5. *Recent Progress in Moduli Theory*  
May 2019. Berkeley - USA  
<http://www.msri.org/workshops/869>
6. *100 years UMI - 800 years Università di Padova*  
May 2022. Padova - Italy  
<https://www.100umi800unipd.it/>
7. *Algebraic Geometry in Roma Tre*  
June 2022. Roma -Italy  
<http://ricerca.matfis.uniroma3.it//users/moduli/verra70/>
8. *AMS-UMI Joint Meeting*  
(forthcoming) July 2024. Palermo - Italy  
<https://umi.dm.unibo.it/jm-umi-ams/>

## Published articles

1. *A compactification of the Universal Picard Variety over the Moduli Space of Stable Curves.* Journal of the AMS. Vol. 7, N. 3, July 94 p. 589-660.
2. *Distribution of Rational points and Kodaira dimension of fiber products.* The Moduli space of curves, Progress in mathematics n. 129, Birkhäuser (1995) p.1-12.
3. *How many rational points can a curve have?* With Joe Harris e Barry Mazur. The Moduli space of curves, Progress in mathematics n. 129, Birkhäuser (1995) p.13-32.
4. *Uniformity of Rational Points.* With Joe Harris and Barry Mazur. Journal of the AMS. Vol.10, N.1, Jan. 97, p. 1-35.
5. *Counting rational points on algebraic curves.* Rend. Sem. Mat. Politecnico dell'Un. di Torino, Vol. 53,3 (1996) Number theory.
6. *Enumeration of rational curves: the rational fibration method.* With Joe Harris. Compositio Mathematica 113, p.209-236 (1998).
7. *Parameter spaces for curves on surfaces and enumeration of rational curves.* With Joe Harris. Compositio Mathematica 113, p.155-208 (1998).
8. *Counting plane curves of any genus.* With Joe Harris. Inventiones mathematicae Vol 131(2), p. 345-392 (1998).
9. *Counting curves on surfaces: a guide to new techniques and results.* (1997) European Congress of Mathematics - Progress in mathematics n. 168, Birkhäuser, pp 136-149.
10. *On certain uniformity properties of curves over function fields.* (1999) Compositio Mathematica Vol 130 No 1 pp 1-19. January 2002.
11. *Recovering plane curves from their bitangents.* With Edoardo Sernesi. Journal of Algebraic geometry 12 (2003) no. 2, pp. 225-244.
12. *On modular properties of odd theta-characteristics.* In "Advances in Algebraic Geometry Motivated by Physics" Contemporary Mathematics Vol 276, 2001 p.101-114.
13. *Remarks about rational points of curves over function fields.* Transactions of AMS 355, Number 9, pp 3475-3484 (2003).
14. *Characterizing curves by their odd theta-characteristics.* With Edoardo Sernesi. Journal für die reine und angewandte Mathematik 562 101-135 (2003).

15. *Combinatorial properties of stable spin curves*. With Cinzia Casagrande. Communications in Algebra: Special issue in Honor of Prof. S.Kleiman. Vol. 31, N. 8 pp 3653-3672 (2003).
16. *Moduli theory and arithmetic of algebraic varieties*. (2003) Proceedings of the Fano conference. A. Collino, A. Conte, M. Marchisio pp. 353-379.
17. *Néron models and compactified Picard schemes over the moduli stack of stable curves*. American Journal of Mathematics, Vol 130, 1-47 (2008).
18. *On Abel maps of stable curves*. With Eduardo Esteves. Michigan Mathematical Journal, Vol. 55, 575- 607 (2007).
19. *Naturality of Abel maps*. Manuscripta Mathematica no. 123, 53-71 (2007).
20. *Compactified Jacobians, Abel maps and Theta divisors*. In “Curves and Abelian varieties: international conference, in honor of Roy Smith’s 65th birthday. March 30-April 2, 2007, University of Georgia, Athens.” Contemporary Mathematics Volume 465 AMS Bookstore, 2008.
21. *Geometry of the theta divisor of a compactified jacobian*. Journal of the European Mathematical Society 11, 1385 - 1427 (2009).
22. *Abel maps of Gorenstein curves*. With Eduardo Esteves and Juliana Coelho. Rendiconti del Circolo Matematico di Palermo - Volume 57, Number 1 April, 2008, 33-59.
23. *Brill-Noether theory of binary curves*. Mathematical Research Letters - Volume 17 - Issue 2/March 2010 243-262.
24. *Linear series on semistable curves*. Int. Math. Res. Not. (2011), no. 13, 2921–2969.
25. *Torelli theorem for graphs and tropical curves*. With Filippo Viviani. Duke Mathematical Journal, Vol. 153. No1 (2010) 129-171.
26. *Torelli theorem for stable curves*. With Filippo Viviani. J. Eur. Math. Soc. 13 (2011), no. 5, 1289-1329.
27. *Geometry of tropical moduli spaces and linkage of graphs*. Journal of Combinatorial Theory, Series A. 119 (2012) 579-598.
28. *Compactified Jacobians of Néron type*. Rend. Lincei Mat. Appl. 23 (2012), 213 -227. DOI 10.4171/RLM/625.
29. *Algebraic and combinatorial Brill-Noether theory*. Compact moduli spaces and vector bundles, 69–85, Contemp. Math., 564, AMS, Providence, RI, 2012.
30. *Algebraic and tropical curves: comparing their moduli spaces*. In “Handbook of Moduli, Volume I.” G. Farkas, I. Morrison (Eds.), Advanced Titles in Mathematics, Volume XXIV (2012), 119–160.

31. *Riemann-Roch theory for weighted graphs and tropical curves.* With Omid Amini. *Advances in Mathematics* 240 (2013) 1-23.
32. *Gonality of algebraic curves and graphs.* In *Algebraic and Complex Geometry: In honour of Klaus Hulek's 60th Birthday.* Springer Proceedings in Mathematics and Statistics 71, 77-109 2014.
33. *Rank of divisors on graphs: an algebro-geometric analysis.* In *A celebration of algebraic geometry, In honour of Joe Harris Hulek's 60th Birthday.* 45-64, *Clay Math. Proc.*, 18, Amer. Math. Soc., Providence, RI, 2013.
34. *The tropicalization of the moduli space of curves.* With Dan Abramovich and Sam Payne. *Annales Scientifiques de l'ENS.* (4) 48 (2015), no. 4, 765-809.
35. *Algebraic and combinatorial rank of divisors on finite graphs.* With Yoav Len and Margarida Melo. *J. Math. Pures Appl.* (9) 104 (2015), no. 2, 227-257.
36. *Hydroxylamine-induced oxidation of ferrous carbonylated truncated hemoglobins from *Mycobacterium tuberculosis* and *Campylobacter jejuni* is limited by carbon monoxide dissociation.* With Paolo Ascenzi, Chiara Ciacci, Tecla Gasperi, Alesandra Pesce, Massimo Coletta. *Journal of Biological Inorganic Chemistry* (2017) DOI 10.1007/s00775-017-1476-x.
37. *Tropical methods in the moduli theory of algebraic curves.* *Algebraic geometry: Salt Lake City 2015*, 103-138, *Proc. Sympos. Pure Math.*, 97.2, Amer. Math. Soc., Providence, RI, 2018.
38. *Compactifying moduli spaces.* *Bull. Amer. Math. Soc.* 57 (2020) 455-482, electronically published on December 17, 2018, DOI:10.1090/bull/1662.
39. *Combinatorics of compactified universal Jacobians.* With Karl Christ. *Advances in Mathematics*, Volume 346, 13 April 2019, Pages 1091-1136 DOI: 10.1016/j.aim.2019.02.019
40. *Recursive combinatorial aspects of compactified moduli spaces.* *Proceedings of the International Congress of Mathematicians - Rio de Janeiro 2018. Vol. II. Invited lectures*, 635-652, World Sci. Publ., Hackensack, NJ, 2018.i.
41. *Tropicalizing the moduli space of spin curves.* With Margarida Melo and Marco Pacini (2019). *Sel. Math. New Ser.* 26, 16 (2020).  
<https://doi.org/10.1007/s00029-020-0539-y>
42. *Enumerative geometry of plane curves.* *Notices Amer. Math. Soc.* Volume 67, Number 6 (2020) 771-289. DOI: <https://doi.org/10.1090/noti2094>

43. *Uniformity of rational points: an up-date and corrections.* With Joe Harris and Barry Mazur. *Tunisian J. Math.* 4(1): 183-201 (2022). DOI: 10.2140/tunis.2022.4.183.
44. *Theta-characteristics on tropical curves.* With Margarida Melo e Marco Pacini. *J. Pure Appl. Algebra* 227 (2023), no. 5, Paper No. 107307. Math Arxiv 2010.00894. 19 pagine.

### Other publications

1. *On a Compactification of the Universal Picard Variety over the Moduli space of Stable Curves.* Ph.D. Thesis in Mathematics (1993) Harvard University.
2. *Current developments in algebraic geometry.* Edited by Lucia Caporaso, James McKernan, Mircea Mustața and Mihnea Popa. Mathematical Sciences Research Institute Publications, 59. Cambridge University Press, Cambridge, 2012. x+426 pp. ISBN: 978-0-521-76825-2 14-06
3. *Moduli spaces in algebraic geometry.* Abstracts from the workshop held February 3-9, 2013. Organized by Dan Abramovich, Lucia Caporaso, Gavril Farkas and Stefan Kebekus. Oberwolfach Rep. 10 (2013), no. 1, 343-392.
4. *Primi passi sulle curve algebriche.* *Linea Matematica N.0 - Gennaio 2022* pp.1-13.
5. *Uniform boundedness for rational points on curves.* Colloquium De Giorgi, Scuola Normale Superiore - Pisa. Preprint available at <http://www.mat.uniroma3.it/users/caporaso/ColloquimDG.pdf> (2023)