

Sandra Di Rocco

Curriculum Vitae

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Current academic position

- 2020–present **Dean of the faculty of Science**, KTH, Stockholm.
- 2010–present **Full professor**, KTH, department of Mathematics, Stockholm.

Previous academic positions

- 2012–2019 **Department chair**, KTH, department of Mathematics, Stockholm.
- 2003–2009 **Associate professor**, KTH, Stockholm, Sweden.
- 2002–2003 **Assistant professor**, University of Minneapolis, Minnesota, USA.
- 2002–2001 **Research Associate**, KTH, Stockholm, Sweden.
- 2000–2001 **Assistant professor**, Yale U., USA.
- 1998–1999 **Post-doc**, Max Planck Institute, Bonn, Germany.
- 1997–1998 **Post-doc**, Mittag-Leffler Institute, Stockholm, Sweden.

Academic qualification

- 2015 **Docent**, KTH, department of Mathematics, Stockholm.
- 1996 **Ph.D in Mathematics**, Notre Dame University, department of Mathematics, USA.
- 1993 **M.S. in Mathematics**, Notre Dame University, department of Mathematics, USA.
- 1992 **Laurea in Mathematics**, Universita' de L'Aquila, summa cum laude, USA.

Current service 2011-2020

- 2018-2029 **Wallenberg Foundation**, WASP/Mathematics, Steering board.
- 2019-2022 **International Congress for Mathematics**, International Advisory Board, Chair.
- 2020-2023 **SIAM Algebra and Geometry section**, USA, President.
- 2020-2023 **Erwin Schrödinger Institute (ESI)**, Vienna, Scientific Advisory Board.
- 2013- **Göran Gustafsson Foundation KTH/UU**, managing board member.
- 2018-2021 **Polytechnic Torino**, SmartData Center, Scientific board.
- 2017- **Polytechnic Torino**, Member of the graduate school.

Service 2011-2019

- 2017-2019 **KTH**, MathDataLab, Managing board.
- 2015-2019 **KVA**, National Committee for Mathematics, Chair.
- 2019 **Vetenskapsråd**, NT, Steering board.

- 2010-2019 **Stockholm Mathematics Centrum**, *managing board member*.
- 2017-2018 **EMS**, *Solidarity Grants committee*, Chair.
- 2017 **SIAM**, *Early Career Prize committee*.
- 2017 **CAT-SP-SWE**, *Cat-Spa-Swe Math conference*, Scientific committee, Chair.
- 2013-2015 **ISP (International Science Program)**, *managing board member*.
- 2010-2015 **KTH**, *member of the faculty board*.

Selected Grants 2009-2020

- 2020-2022 **Marie-Curie postdoc**, *ERC*, K. Kohn.
- 2020-2021 **Varg postdoc grant (KAW)**.
- 2019-2023 **VR Projektbidrag**, [NT:2018-03688], *Polar geometry and sampling of varieties*.
- 2017 **ICERM semester program**.
- 2017 **KAW guest-professorship for A. Dickenstein**.
- 2015-2018 **VR Projektbidrag**, [NT:2014-4763], *Equivariant and Numerical Methods in Algebraic Geometry*.
- 2011-2014 **VR Projektbidrag**, [NT:2010-5563], *Toric geometry and applications*.
- 2009-2014 **Göran Gustafsson Foundations**, *Research group grant*.
- 2011 **Institute Mittag-Leffler**, *Special semester*, Algebraic Geometry.
- 2010 **ESF-EMS-ERCOM-008**, *MEGA-conference*.
- 2010 **Presidential grant, KTH**, *Algebraic Geometry*, Research activities.
- 2007-2010 **VR Projektbidrag**, [NT:2006-3539], *Algebraic Geometry and its applications*.

Editorial work

- 2014 **co-editor**, *Combinatorial Algebraic Geometry*, Lecture Notes in Mathematics 2108, Springer.
- 2014 **co-editor**, *Computational Algebraic Geometry*, Special issue, Mathematics in Computer Science.
- 2012 **co-editor**, *Effective Methods in Algebraic Geometry*, Special issue, Journal of Symbolic computations..
- 2008 **co-editor**, *Interactions of Classical and Numerical Algebraic Geometry*, 496, Contemporary Mathematics.

Advising

Ph.D students

- 2020 **Jiayue Qi**, *KTH*, Guest student.
- 2019- **Lukas Gistafsson** , *KTH*, main advisor, exp. Ph.D 2024.
supported by [NT:2018-03688]
- 2016- **Oliver Gäfvert** , *KTH*, main advisor, exp. Ph.D 2021.
supported by [NT:2014-4763]
- 2015- **Nasrin Altafi** , *KTH*, co-advisor.

- 2010–2015 **Anders Lundman**, *KTH*, Licentiat 2013, expected Ph.D 2015.
supported by [NT:2010-5563]
- 2009–2013 **Christine Jost**, *SU*, Licentiat 2010, Ph.D 2013.
- 2006–2010 **David Eklund**, *KTH*, Licentiat 2008, Ph.D 2010.
supported by [NT:2006-3539]
- 2010–2015 **Ornella Greco**, *KTH*, co-advisor.
- 2008–2012 **Johanna Nilsson**, *KTH*, co-advisor.
- 2011–2015 **Martina Scolamiero**, *KTH*, co-advisor.
- Postdocs/Researchers
- 2020–2022 **Luca Scheffler**, *KTH*.
- 2017–2018 **David Eklund**, *KTH*.
- 2016–2017 **Alessandro De Stefani**, *KTH*.
- 2015–2016 **Ralph Morrison**, *KTH*.
- 2009–2011 **Kelly Jabbusch**, *KTH*.
- 2011 **Weronika Buczynska, Jonathan Hauenstein, Piotr Zwiernik, Jo-han Björklund, Maria Angelica Cueto, Christine Berkesch, Thomas Kahle, Luca Moci, Dustin Cartwright, Mittag-Leffler.**

Upcoming events

All invitations for 2020 have been cancelled or postponed.

Selected invited presentations 2011-2020

- 2020 **co-chair**, *FoCM session in applied geometry*, Vancouver, June.
- 2020 **plenary**, *Milestone Conference*, Berlin.
- 2019 **invited**, *Oberwolfach*, August.
- 2019 **invited**, *Oberwolfach*, September.
- 2019 **Course speaker**, *Graduate school*, ICTP Trieste, July.
- 2019 **Co-chair**, *SIAM AG*, Bern, July.
- 2019 **invited speaker**, *SIAM AG*, Bern, July.
- 2019 **Scientific Board**, *MEGA*, Madrid, June.
- 2019 **Mini-course**, *KU*, Nairobi. Kenya, Februari.
- 2019 **plenary**, *Cambridge*, Colloquium, February.
- 2019 **plenary**, *Oxford*, AG seminar, February.
- 2018 **organizer**, *Special semester*, ICERM, Brown, September-December.
- 2018 **invited**, *Colloquium*, Frankfurt, December.
- 2018 **invited**, *Colloquium*, Chalmers, December.
- 2018 **invited**, *seminar*, Princeton, november.
- 2018 **invited**, *seminar*, Rutgers, October.
- 2018 **invited**, *seminar*, Northeastern U., October.

- 2018 **plenary**, *Conference*, Genova, July.
- 2018 **plenary**, *Conference*, Fields Institute, Toronto, June.
- 2018 **plenary**, *Colloquium*, W-Math-Olimpics, Trieste, May.
- 2018 **invited**, *Special semester*, Mittag-Leffler, January-May.
- 2018 **plenary**, *Workshop*, Mittag-Leffler, February.
- 2017 **plenary speaker**, *AG seminar*, Bergen, November.
- 2017 **plenary**, *Colloquium*, Berlin, November.
- 2017 **plenary**, *Conference*, L'Aquila, September.
- 2017 **plenary**, *Workshop*, Magderburg, September.
- 2017 **invited speaker**, *PEAKS*, Haus Bergkranz, Riezlern, Austria.
February
- 2017 **invited speaker**, *workshop in Alg. Geometry*, Mexico, May.
- 2017 **plenary speaker**, *Conference in Alg. Geometry*, Oslo, Norway, January.
- 2016 **invited speaker**, *Annual conference of the Canadian Math. Soc.*, Niagara, Canada,
December.
- 2016 **invited speaker**, *Fields Institute Colloquium*, Fields Institute, Canada, December.
- 2016 **plenary speaker**, *WAGS 2016*, Colorado State University, October.
- 2016 **plenary speaker**, *Conference in Convexity in Alegberaic Geometry*, Fields Institute,
Canada, October.
- 2016 **plenary speaker**, *Conference in Arithmetic Geometry*, Trento, Italy, June.
- 2016 **plenary speaker**, *Comp. Algebra, Algebraic Geometry and Applications*, Buenos
Aires, Argentina, August.
- 2016 **plenary speaker**, *Conference in Algebraic and Arithmetic Geometry*, Berlin, Ger-
many, May.
- 2016 **organizer**, *Mini-workshop*, Oberwolfach, Germany, February.
- 2016 **invited speaker**, *workshop*, Oberwolfach, Germany, April.
- 2016 **invited speaker**, *workshop*, Rome, Italy, Genuary.
- 2015 **invited speaker**, *AG.seminar*, Milano, Italy, September.
- 2015 **invited speaker**, *AG.seminar*, Oslo, Norway, October.
- 2015 **plenary speaker**, *Workshop*, ICMS, Edinburgh,Scotland.
- 2015 **organizer**, *SIAM, AG, NIMS & KAIST*, South Korea.
- 2015 **Invited**, *Special trimester in Algebric Geometry*, IMPA, Rio, Brasil.
- 2014 **Invited**, *AG seminar*, Marburg U., Marburg, Germany.
- 2014 **Invited**, *Workshop on Numerical Algebraic Geometry*, Notre Dame U., USA.
- 2014 **Invited**, *Colloquium in Applied Mathematics*, Notre Dame U., USA.
- 2014 **Plenary speaker**, *Computational Nonlinear Algebra*, ICERM, Brown, USA.
- 2014 **speaker**, *workshop:negative curves on algebraic surfaces*, Ober Wolfach, Germany.
- 2014 **speaker**, *workshop:positivity of vector bundles*, BIRS, Banff, Canada.
- 2013 **Plenary speaker**, *SIAM, Applied Algebraic Geometry*, Colorado, USA.

- 2013 **CIME-CIRM**, *graduate course*, Combinatorial algebraic geometry, Levico Terme.
- 2013 **Invited speaker**, *PEAKS*, Haus Bergkranz, Riezlern, Austria.
- 2012 **Workshop: classical algebraic geometry**, *Oberwolfach*, Germany.
- 2012 **Workshop: toric geometry**, *Oberwolfach*, Germany.
- 2011 **CIME-Graduate course**, *toric and tropical geometry*, Trento, Italy.
- 2011 **Invited speaker**, *ELGA 2011*, Cordoba, Argentina.
- 2011 **Plenary speaker**, *Toric Geometry and Applications*, K.U. Leuven, Belgium.
- 2011 **Plenary speaker**, *Toric and tropical geometry*, Frankfurt, Germany.

Organization 2011-2018

- 2020 **Section AG co-organizer**, *FoCM*, Vancouver, June.
- 2019 **Co-chair**, *SIAM AG biannual conference*, Bern, Switzerland.
- 2019 **Scientific committee**, *MEGA 2019*, Madrid.
- 2018 **Co-organizer**, *Special semester: Non linear algebra*, ICERM, Brown, USA.
- 2018 **Co-organizer**, *workshop: tropical geometry*, Mittag-Leffler-KTH, april.
- 2016 **Co-organizer**, *workshop: arrangements of lines*, Oberwolfach, Gemany.
- 2015 **Organizer**, *Mini-symposium: combinatorial AG methods*, SIAM, South Korea.
- 2014 **Organizer**, *Days of Algebraic Geometry*, Mittag-Leffler, Stockholm.
- 2014 **Co-organizer**, *workshop:negative curves and linear systems*, Oberwolfach, Gemany.
- 2013 **Co-organizer**, *CIME-CIRM international graduate courses*, Levico Terme, Italy.
- 2011 **Co-organizer**, *special semester*, Institute Mittag-Leffler, Stockholm.
- 2011 **Co-organizer**, *workshop Solving polynomial equations*, KTH.
- 2011 **Co-organizer**, *conference MEGA* , Stockholm University.