

# Sandra Di Rocco

## Curriculum Vitae

KTH, Mathematics  
S-10044, Stockholm, Sweden  
☎ +46 (0)739847160  
✉ dirocco@kth.se  
📁 math.kth.se/~dirocco

### 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, Italy.**

### Current service 2013-2021

- 2018–2025 **Wallenberg Foundation, WASP/Mathematics** , Steering board.
- 2018–2025 **IVA, International member committee** , Steering board.
- 2019–2022 **International Congress for Mathematics** , *International Advisory Board* , Chair.
- 2020–2023 **Erwin Schrödinger Institute (ESI)** , *Vienna* , Scientific Advisory Board.
- 2020–2023 **GRAPES, Marie Skłodowska-Curie Actions ITN**, 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 2011-2021

- 2020–2022 **SIAM Algebra and Geometry section** , *USA*, Chair.
- 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* .

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### Selected Grants 2009-2021

- 2022-2024 **KAW**, *Post-doc grant*.  
2020-2022 **Marie-Curie postdoc**, *ERC*, K. Kohn.  
2020-2021 **Verg 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.

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### Editorial work

- 2014 **editor**, *Rendiconti Ist. Mat. Trieste* , Lecture Notes in Mathematics 2108, Springer.  
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.

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### Advising

Ph.D students

- 2020 **Jiayue Qi**, *KTH*, Guest student.

- 2019- **Lukas Gustafsson** , *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
- 2022–2024 **Luca Sodomaco**, *KTH*.
- 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.**

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## Upcoming events

- 2022 **MEGA**, *Krakow*, June.
- 2022 **invited**, *Nordic Congress of Mathematics. Aalto*, August.
- 2022 **invited**, *Math. Of Complex Data, KTH*, August.
- 2022 **invited**, *IMU*, August.
- 2022 **invited**, *Conference, Konstanz*.
- 2022 **invited**, *BIRS*, December.
- 2022 **invited**, *Workshop, Warsaw*.
- 2023 **invited**, *BIRS*, April.

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## Selected invited presentations 2017-2022

- 2022 **Madrid**, *AG seminar* , digital.
- 2021 **Barcelona**, *workshop* .
- 2021 **Cetraro**, *conference*, digital.
- 2021 **TU Berlin**, *AG seminar* , digital.

- 2021 **Osnabruck**, *AG seminar*, digital.
- 2020 **Max Planck Leipzig**, *Seminar*, digital.
- 2020 **Colloquium**, *U. of Trieste*, digital.
- 2020 **ZAG online seminar**, *digital*.
- 2020 **Colloquium speaker**, *U. of Buenos Aires*, digital.
- 2020 **co-chair**, *FoCM session in applied geometry*, Vancouver.
- 2020 **Milestone Conference**, *Berlin*.
- 2019 **Oberwolfach**, *workshop*.
- 2019 **Oberwolfach**, *workshop*.
- 2019 **Course speaker**, *Graduate school, ICTP Trieste*.
- 2019 **Co-chair**, *SIAM AG, Bern*.
- 2019 **SIAM AG**, *Bern, July*.
- 2019 **Scientific Board**, *MEGA, Madrid*.
- 2019 **Mini-course**, *KU, Nairobi. Kenya*.
- 2019 **Cambridge**, *Colloquium*.
- 2019 **Oxford**, *AG seminar*.
- 2018 **Special semester**, *ICERM, Brown*.
- 2018 **Colloquium**, *Frankfurt*.
- 2018 **Colloquium**, *Chalmers*.
- 2018 **seminar**, *Princeton*.
- 2018 **seminar**, *Rutgers*.
- 2018 **seminar**, *Northeastern U.*
- 2018 **Conference**, *Genova*.
- 2018 **Conference**, *Fields Institute, Toronto*.
- 2018 **Colloquium**, *W-Math-Olimpics, Trieste*.
- 2018 **Special semester**, *Mittag-Leffler*.
- 2018 **Workshop**, *Mittag-Leffler*.
- 2017 **AG seminar**, *Bergen*.
- 2017 **Colloquium**, *Berlin*.
- 2017 **Conference**, *L'Aquila*.
- 2017 **Workshop**, *Magdeburg*.
- 2017 **PEAKS**, *Haus Bergkranz, Riezlern, Austria*.
- 2017 **workshop in Alg. Geometry**, *Mexico*.
- 2017 **Conference in Alg. Geometry**, *Oslo, Norway*.

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## Organization 2011-2021

- 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.

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### Peer review papers

**Google Scholar profile**, <https://scholar.google.se/citations?user=CSt9LKcAAAAJ&hl=sv>.

**ArXiv profile**, <https://arxiv.org/search/?searchtype=author&query=Di+Rocco%2C+S>.