

# Giovanni Inchiostro | C.V.

University of Washington, Seattle, USA – Department of Mathematics

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## Employment

2020 - current **Postdoc**, *University of Washington, Seattle.*

## Education

2015 - 2020 **Ph. D. in Mathematics**, *Brown University*, Advisor: Professor Dan Abramovich.  
Thesis title: Wall-crossing morphisms for moduli of stable pairs

2010 - 2015 **Diploma in Mathematics**, *Scuola Normale Superiore di Pisa. Italy.*

## Publications

- 2024 **Effective morphisms and quotient stacks**, *With Andrea Di Lorenzo*, International Mathematics Research Notices, To appear.
- 2023 **The integral Chow rings of moduli of Weierstrass fibrations**, *With Samir Canning and Andrea Di Lorenzo*, Trans. Amer. Math. Soc., To appear.
- 2023 **Moduli of Q-Gorenstein pairs and applications**, *With Stefano Filipazzi*, Journal of Algebraic Geometry, To appear.
- 2023 **Wall crossing morphisms for moduli of stable log pairs**, *with Kenny Ascher, Dori Bejleri and Zsolt Patakfalvi*, Annals of Mathematics, Vol. 198 (2023), issue 2.
- 2022 **Moduli of genus one curves with two marked points as a weighted blow-up**, Mathematische Zeitschrift, Volume 302 (2022), issue 3.
- 2021 **Stable pairs with a twist and gluing morphisms for moduli of surfaces**, *with Dori Bejleri*, Selecta Mathematica, Volume 27 (2021) no. 3.
- 2021 **The cluster modular groups of the dimer model**, *with Terrence George*, Ann. Inst. Henri Poincaré D., To appear.
- 2020 **Small contractions of 1-parameter families of elliptic surfaces**, Appendix to arXiv:1710.10113, Proc. Lond. Math. Soc.
- 2020 **Moduli of Weierstrass fibrations with marked section**, Advances in Mathematics, Vol 375, 2 December 2020.
- 2019 **The Picard group of the moduli of smooth complete intersections of two quadrics**, *with Shamil Asgarli*, Trans. Amer. Math. Soc., Volume 372, Number 5, 2019.

## Preprints

- 2023 **A criterion for smooth weighted blow-downs**, *With Veronica Arena, Andrea Di Lorenzo, Siddarth Mathur, Stephen Obinna and Michele Pernice*, Available on Arxiv.

- 2023 **Moduli of boundary polarized Calabi-Yau pairs**, *With Kenny Ascher, Dori Bejleri, Harold Blum, Kristin DeVleming, Yuchen Liu and Xiaowei Wang*, Available on Arxiv, submitted.
- 2022 **Degenerations of twisted maps to algebraic stacks**, *With Andrea Di Lorenzo*, Available on Arxiv, submitted.
- 2022 **Dimers and Beauville integrable systems**, *With Terrence George*, Available on Arxiv, submitted.

### In preparation

**Moduli of properly elliptic surfaces of irregularity zero**, *With Dori Bejleri, Andres Fernandez Herrero, Josiah Foster, Svetlana Makarova, Junyan Zhao*, Available upon request.

**Deformation theory for twisted stable pairs**, *With Dori Bejleri*, Available upon request.

**The cotangent complex of pairs**, *With Dori Bejleri and Elden Elmanto*, Available upon request.

**Stable twisted maps to toric quotients**, *With Andrea Di Lorenzo*.

### Teaching experiences

#### Instructor

Spring 2023 **Linear Algebra, 120 students section**, *Lead instructor*.  
University of Washington

Spring 2023 **Complex Algebraic Surfaces**, *Graduate course*.  
University of Washington

Spring 2022 **Abstract Algebra**, *group theory*.  
University of Washington

Winter and  
Fall 2022 **Linear Algebra**.  
University of Washington

Winter,  
Spring, Fall  
2021 **Linear Algebra**.  
University of Washington

Spring 2020 **Introduction to Calculus I**.  
Brown University

Fall 2018 **Calculus I**.  
Brown University

#### Teaching assistant

Summer 2020 **Linear Algebra**.  
Brown University

Spring 2018 **Calculus II**.  
Brown University

- Spring and **Calculus II.**  
Fall 2017 Brown University  
Fall 2016 **Calculus I.**  
Brown University

## Service and mentoring

### Organizing

- Fall 2022 - **Organizer of the Algebra and Algebraic Geometry seminar at UW**, *Research seminar in Algebra and Algebraic Geometry.*  
present  
2022-2023 **Lead Postdoc**, *Organizational role for the postdocs at the math department of the University of Washington.*  
2017 - Fall **Co-organizer of Brown University Algebraic Geometry Seminar**, *Research seminar in Algebraic Geometry.*  
2018  
2017 - Fall **Co-organizer of Brown Baby Algebraic Geometry Seminar (BAGS)**, *Spring 2017: Deformation theory; Fall 2017: Classical papers in Algebraic Geometry; Spring 2018: Algebraic Surfaces; Fall 2018: Rationality problems in Algebraic Geometry.*  
2018

### Mentoring

- Fall 2023 **Reading course on algebraic geometry**, Mentoring the first year graduate student Daniel Rostamloo.  
University of Washington  
Summer 2022 **Algebraic Geometry North Eastern Conference problem session**, *Suggested a research problem in birational geometry and moduli spaces. Together with Bejleri we lead a group of six graduate students, our work culminated in a research paper.*  
Fall 2017 **Undergraduate student George Spahn**, *Tropical Geometry, following **Introduction to Tropical Geometry** by Maclagan and Sturmfels.*

## Visiting

- Sept. 2023 **EPFL.**  
July 2019 **Albert-Ludwigs-Universität Freiburg.**  
January - **University of California Berkeley**, *Visiting Prof. Martin Olsson during the MSRI semester on "Birational geometry and moduli".*  
May 2019

## Fellowship and Awards

- 2023 - 2025 **AMS Simons Travel Grant.**  
Fall 2019 **Outstanding Teaching Award.**  
Department of Mathematics, Brown University  
2010 - 2015 **Fellowship of Scuola Normale Superiore.**  
Scuola Normale Superiore di Pisa.

## Selected Conferences and colloquium talks

- Oct. 2023 **Geometry and Topology seminar**, *Imperial College.*

- Sept. 2023 **Giornate di Geometria Algebrica ed Argomenti Correlati.**
- June 2023 **Arithmetic, Birational Geometry, and Moduli Spaces Conference, Providence.**
- May 2023 **MPS Conference on Higher Dimensional Geometry, Simons center.**
- Feb. 2023 **American Institute of Mathematics Workshop on Developments in moduli problems, San Jose.**
- April 2020 **Western Algebraic Geometry Symposium, Remote.**
- August 2019 **Moduli and stability conditions, Leibniz Universität Hannover.**

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## Other

### Talks and presentations

- 2017- 2023 **Selected research Seminars, Cambridge, EPFL, Yale, Imperial College, Columbia University, Harvard-MIT seminar, Princeton, UCLA, University of Washington, University of California San Diego, University of Pisa, Colorado State University.**
- Referee for various journals, including Transactions of the AMS, IMRN, Advances in Mathematics, Geometry and Topology, Crelle; Mathscinet reviewer.