

Giovanni Inchiostro | C.V.

University of Washington – Department of Mathematics

✉ ginchios@uw.edu

Employment

2020 - current **Postdoc**, *University of Washington*, Mentor: Professor Jarod Alper.

Education

2015 - 2020 **Ph. D. in Mathematics**, *Brown University*, Providence, RI, USA, Thesis 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.

2013 - 2015 **M.Sc. in Mathematics (Laurea Magistrale)**, *Università di Pisa*, Grade: 110/110 with honors, Thesis advisor: Professor Jacopo Gandini.

2010 - 2013 **B.Sc. in Mathematics (Laurea Triennale)**, *Università di Pisa*, Grade: 110/110 with honors, Thesis advisor: Professor Giovanni Gaiffi.

Publications

2023 **Wall crossing morphisms for moduli of stable log pairs**, with *Kenny Ascher, Dori Bejleri and Zsolt Patakfalvi*, *Annals of Mathematics*, To appear.

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*, *Transactions of the American Mathematical Society*, Volume 372, Number 5, 2019.

Preprints submitted

2022 **Degenerations of twisted maps to algebraic stacks**, *With Andrea Di Lorenzo*.

2022 **The integral Chow rings of moduli of Weierstrass fibrations**, *With Samir Canning and Andrea Di Lorenzo*.

- 2022 **Dimers and Beauville integrable systems**, *With Terrence George.*
 2021 **Moduli of Q-Gorenstein pairs and applications**, *With Stefano Filipazzi.*

Preprints available upon request and in preparation

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

Moduli of log Calabi-Yau pairs, *With Kenny Ascher, Dori Bejleri, Harold Blum, Kristin DeVleming, Yuchen Liu and Xiaowei Wang*, Available upon request.

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

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

Deformation theory for elliptic fibrations with section contracted, *With Dori Bejleri, Andres Fernandez Herrero, Josiah Foster, Svetlana Makarova, Junyan Zhao.*

Teaching experiences and Teaching Awards

Fall 2019 **Outstanding Teaching Award.**
 Department of Mathematics, Brown University

Instructor

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
 Fall 2017 **Calculus II.**
 Brown University

Fall 2016 **Calculus I.**
 Brown University

Service and mentoring

Organizing

Fall 2022 - present **Organizer of the Algebra and Algebraic Geometry seminar at UW**, *Research seminar in Algebra and Algebraic Geometry.*

Fall 2022 - present **Lead Postdoc**, *Organizational role for the postdocs at the math department.*

2017 - Fall 2018 **Co-organizer of Brown University Algebraic Geometry Seminar**, *Research seminar in Algebraic Geometry.*

2017 - Fall 2018 **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.*

Mentoring

Summer 2022 **Algebraic Geometry North Eastern Conference problem session**, *Suggested a research problem in birational geometry and moduli spaces. Currently leading a group of six graduate students towards a solution.*

Fall 2017 **Undergraduate student George Spahn**, *Tropical Geometry, following **Introduction to Tropical Geometry** by Maclagan and Sturmfels.*

Visiting positions

July 2019 **Albert-Ludwigs-Universität Freiburg**, *Visiting student of Prof. Stefan Kebekus.*

January - May 2019 **University of California Berkeley**, *Visiting student of Prof. Martin Olsson during the MSRI semester on "Birational geometry and moduli".*

Fellowship

2010 - 2015 **Fellowship of Scuola Normale Superiore.**
Scuola Normale Superiore di Pisa.

Conference talks

February 2023 **Degenerations of twisted maps to algebraic stacks**, *AiM Workshop on Developments in moduli problems.*

April 2020 **Wall crossing morphisms for moduli of stable pairs**, *Western Algebraic Geometry Symposium.*

August 2019 **Wall crossing morphisms for moduli of stable pairs**, *Summer school on "Moduli and stability conditions", Leibniz Universität Hannover.*

Talks and presentations

2017- 2022 **Several Algebraic Geometry Seminars including**, *Brown University, Yale, Imperial College, Institut Camille Jordan in Lyon, Albert-Ludwigs-Universität Freiburg, Columbia University, Harvard-MIT seminar, Princeton, UCLA, UW, Colorado State University, Complete list available upon request.*