

BRETT NASSERDEN

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EDUCATION

University of Waterloo

PhD Candidate University of Waterloo

Anticipated 2021

Simon Fraser University

Master of Science (Mathematics)

2016

Bachelor of Science (Honors Mathematics)

2014

RESEARCH INTERESTS

Algebraic geometry, Arithmetic geometry, Arithmetic dynamics, Number theory.

PUBLICATIONS AND PRE-PRINTS

1. B.Nasserden, *Effective Divisors and the Kawaguchi-Silverman Conjecture*, arXiv:2011.08788
2. B.Nasserden *Realizability of Arithmetic Degrees*, (In preparation)
3. N.Bruin, B.Nasserden, *Arithmetic aspects of the Burkhardt quartic threefold*, Journal of the London Mathematical Society **98** (2018) no. 3, 536–556.
4. B.Nasserden, S. Xiao, *The density of rational points on P^1 with three stacky points*, arXiv:2011.06586
5. B. Nasserden *A criterion for a projective surface to be a global quotient by a finite abelian group*, (In preparation)

SELECTED TALKS AND PRESENTATIONS

1. *Positivity in Arithmetic Dynamics*, University of Toronto Number/Representation Theory seminar, November 04, 2020.
2. *Dynamics in combinatorial geometry*, Canadian Mathematical Society Winter Meeting, December 2019.
3. *Explicit calculations with a moduli space of abelian surfaces*, Canadian Mathematical Society Winter Meeting, December 2018.
4. *Explicit computations with the moduli space of abelian surfaces with a level 3 structure*, AMMCS 2017, August 2017.
5. *On the construction of genus 2 curves with a full level 3 structure*, CNTA 2016, July 2016

TEACHING EXPERIENCE

As an instructor

1. Math 115: Linear algebra for engineering. University of Waterloo.