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## Arts for Mathematics

### Theatrical performances

My screenplay *Mathematical Sciences Investigation (MSI): Anatomy of integers and permutations* (joint with my sister, Jennifer Granville) has been performed at

- Dec 2012 [Canadian Mathematical Society Annual meeting, Montréal](#)
- Apr 2011 [Mathematical Sciences Research Institute, Berkeley](#)
- Dec 2009 [Institute for Advanced Study, Princeton](#)

### Graphic novels

The above screenplay was adapted as a graphic novel *Prime Suspects: Anatomy of integers and permutations*, published by Princeton University Press (August 2019).

Our new graphic project, *Cirque Cal-Cool* aims to explain differential calculus by *deriving* the formulae from solving “real-life” situations in the circus. We have been working with performers at the Cirque de Soleil training facility in Montreal to develop different circus related themes.

### Documentary Films

I have been in four films in my capacity as an expert mathematician:

- 2021 [The abc-conjecture](#) on NHK (Japan) about the work of Mochizuki on the abc-conjecture.
- 2014 [Counting from infinity](#) on Yitang Zhang and his breakthrough on small gaps between primes.
- 2011 [Memex Doc: Caccia ai numeri primi](#) (Italian)= “The hunt for prime numbers”
- 2008 [Great Genius and Profound Stupidity](#) on PBS. Explores these notions through a discussion of the lives and behaviour of Paul Erdős, Helen Keller and other extraordinary talents

### Promotional films supporting women in mathematics

Two films in which I explored, as a producer and writer, the development of a mathematician:

- 2018 [The London School of Geometry and Number Theory](#) director/editors: Jennifer Granville and Dave Turner. This is a promo video for the LSGNT program.
- 2013 [Women in number theory](#) director: Julia Milz, editor: Anthony Kennedy. This film explores the mathematical lives and viewpoints of several female PhD students in Montreal

### Podcasts

- 2022 [Chowla's conjecture](#), Quanta magazine podcast

### Video podcasts

- 2023 [When Computers Write Proofs, What's the Point of Mathematicians?](#), Quanta magazine videocast
- 2022 [The High Schooler Who Solved a Prime Number Theorem](#), Quanta magazine videocast