

Eamon Quinlan

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Education

- 2015–2020 **Ph.D. in Mathematics**, *University of Michigan*, Ann Arbor, MI, USA.
◦ Advised by Prof. Karen Smith.
◦ 10/2018–12/2019 Extramural study at the University of Tokyo, Japan, advised by Prof. Shunsuke Takagi.
- 2011–2015 **B. Sc. in Mathematics**, *University of Glasgow*, Glasgow, Scotland.
◦ With Honours of the First Class.
◦ 08/2012–05/2013 Study abroad at the National University of Singapore, Singapore.

Preprints and Publications

- 2020 Symmetry in the ring of differential operators of a normal Gorenstein algebra.
◦ In preparation.
- 2019 Bernstein-Sato theory for arbitrary ideals in positive characteristic.
◦ arXiv:1907.11709
◦ Submitted for publication.
- 2019 Bernstein-Sato roots for monomial ideals in positive characteristic.
◦ arXiv:1907.07297
◦ Submitted for publication.

Teaching

Graduate Student Instructor at the University of Michigan:

- W2020 MATH116 Calculus II.
W2017 MATH115 Calculus I.
F2016 MATH105 Precalculus.

Other teaching experiences:

- 08/2018 Course on Rings of Differential Operators.
◦ A one-week introductory course on rings of differential operators aimed at graduate students and advanced undergrads.
- 07/2018 Michigan Math and Science Scholars, Fibonacci Numbers.
◦ Graduate Student Instructor under Prof. Melvin Hochster.
◦ A two-week intensive course to introduce highly motivated high-school students to higher level mathematics such as number theory, combinatorics and game theory via the study of Fibonacci numbers.
- 07/2017 Michigan Math and Science Scholars, Fibonacci Numbers.

Scholarships and Awards

- 2018 Ito Foundation for International Education Exchange Scholarship.
 - Provides funding for up to two years of study in Japan.
- 2015 Third Prize at the International Mathematics Competition for University Students.
- 2014 Ede and Ravenscroft Prize.
 - Awarded annually to the most distinguished Science graduate of the year
- 2013 Cunningham Medal and Prize.
 - Awarded annually to the most distinguished student in the Advanced Honours class of Mathematics
- 2011 Honorable Mention at the International Physics Olympiad.
- 2010 Gold Medal at the Spanish Physics Olympiad.

Invited Talks

- 2020 AMS Sectional Meeting, Special Session on Recent Developments in Commutative Algebra.
 - Purdue University, West Lafayette, IN, USA.
- 2019 41st Japan Symposium on Commutative Algebra.
 - Kurashiki, Okayama, Japan.
 - *Bernstein-Sato theory in positive characteristic.*
- 2019 Commutative Algebra and Algebraic Geometry Seminar.
 - Centro de Investigaciones Matemáticas, Guanajuato, Mexico.
 - *Bernstein-Sato theory in positive characteristic.*
- 2019 AMS Sectional Meeting, Special Session on Homological and Characteristic $p > 0$ Methods in Commutative Algebra.
 - University of Wisconsin, Madison, WI, USA.
 - *Bernstein-Sato theory in positive characteristic.*
- 2019 Algebra Seminar
 - Universidad Autónoma de Madrid, Madrid, Spain.
 - *Rings of differential operators on Gorenstein algebras.*
- 2019 RIMS x OIST joint workshop: “On the problem of resolution of singularities and its vicinity”.
 - Okinawa Institute of Science and Technology, Onna, Okinawa, Japan.
 - *Bernstein-Sato theory in positive characteristic.*
- 2019 Singularity Seminar.
 - Nihon University, Tokyo, Japan.
 - *Bernstein-Sato theory in positive characteristic.*
- 2018 Singularity Seminar.
 - Nihon University, Tokyo, Japan.
 - *Rings of differential operators on Gorenstein algebras.*

Languages

- English — Native level.
- Spanish — Mother tongue.
- Japanese — Basic level