Forte Shinko

Education

2017–present **PhD (Mathematics)**, *California Institute of Technology*.
2015–2017 **MSc (Mathematics)**, *McGill University*.
2010–2015 **BMath (Pure Mathematics)**, *University of Waterloo*.

Research interests

- Descriptive set theory
- Dynamical systems
- Geometric group theory

Publications

Joshua Frisch, Alexander S. Kechris, Forte Shinko, and Zoltán Vidnyánszky. Realizations of countable Borel equivalence relations. *arXiv:2109.12486*, 2021.

Joshua Frisch and Forte Shinko. A dichotomy for Polish modules. *arXiv:2009.05855, accepted in Israel J. Math.*

Joshua Frisch, Alexander S. Kechris, and Forte Shinko. Lifts of Borel actions on quotient spaces. *arXiv:2011.01395, submitted.*

Joshua Frisch and Forte Shinko. Quotients by countable subgroups are hyperfinite. *arXiv:1909.08716, accepted in Groups, Geometry and Dynamics.*

Forte Shinko. Equidecomposition in cardinal algebras. *Fund. Math.*, 253(2):197–204, 2021.

Jingyin Huang, Marcin Sabok, and Forte Shinko. Hyperfiniteness of boundary actions of cubulated hyperbolic groups. *Ergodic Theory Dynam. Systems*, 40(9):2453–2466, 2020.

Jason P. Bell, Blake W. Madill, and Forte Shinko. Differential polynomial rings over rings satisfying a polynomial identity. *J. Algebra*, 423:28–36, 2015.

fshinko@caltech.edu • *www.its.caltech.edu/~fshinko/*

Invited talks

- Group Actions Seminar, UC San Diego, Sep 2021
- CMS Winter Meeting, Montreal, Dec 2020
- SEALS, Florida, Feb 2020
- European Set Theory, Vienna, July 2019
- BEST, Oregon, June 2019
- Logic Seminar, UIUC, Feb 2019
- Descriptive set theory in Turin, Sep 2017

Teaching experience

2017–present **Teaching assistant**, *California Institute of Technology*.
Recitations, grading homework and exams, office hours, typing up solutions.
- Math 1b: Linear algebra
- Math 2: Ordinary differential equations
- Math 3: Probability and statistics
- Math 6c: Mathematical logic
- Math 117a: Computability theory

2015–2017 **Teaching assistant**, *McGill University*.
Tutorials, grading homework and exams, office hours, typing up solutions.
- Math 123: Linear algebra and probability
- Math 140: Calculus 1
- Math 318: Mathematical logic

2012 **Instructional support assistant**, *University of Waterloo*.
Along with regular TA duties, also reviewed drafts of assignments and wrote code to verify correctness of submissions.
- CS 135: Designing functional programs

Awards

- Scott Russell Johnson Excellence in Graduate Studies Award (2021)
- Tom Apostol Award for Excellence in Teaching (2021)
- Tom Apostol Award for Excellence in Teaching (2020)
- NSERC Undergraduate Student Research Award (September 2014)
- NSERC Undergraduate Student Research Award (January 2014)
- University of Waterloo Rene Descartes Scholarship (every term from 2010-2015)
- University of Waterloo President's Scholarship of Distinction (September 2010)