

Research interests

Number theory, algebraic geometry

Employment

- **University of Georgia** USA
Limited Term Assistant Professor Spring 2021 –
- **Mathematical Sciences Research Institute** USA
Postdoctoral Fellow Fall 2020

Education

- **Massachusetts Institute of Technology** USA
PhD, advisor Bjorn Poonen 2015 - 2020
- **Kharkiv, V.N. Karazin National University** Ukraine
BSc in Pure Mathematics 2011 - 2015

Publications

1. B. Kadets “Estimates for the number of rational points on simple abelian varieties over finite fields” – to appear in *Math. Zeitschrift*, arXiv
2. B. Kadets “Large arboreal Galois representations” – *Journal of Number Theory*, 210 (2020) 416-430, arXiv
3. B. Kadets, E. Karolinsky, A. Stolin, I. Pop “Classification of quantum groups and Belavin-Drinfeld cohomologies for orthogonal and symplectic Lie algebras” – *J. Math. Phys.*, **57**, 051707 (2016), arXiv
4. B. Kadets, E. Karolinsky, A. Stolin, I. Pop “Classification of quantum groups and Belavin-Drinfeld cohomologies” – *Communications in Mathematical Physics*, **344**, 1, 2016, p. 1-24, arXiv
5. C. Eagle, I. Farah, B. Hart, B. Kadets, V. Kalashnyk, M. Lupini “Fraïssé limits of C^* -algebras” – *J. Symb. Logic*, **81**(02), 2016, arXiv
6. B. Kadets, E. Karolinsky, A. Stolin, I. Pop “Quantum groups: from Kulish-Reshetikhin discovery to classification” – *Zap. Nauchn.Sem. POMI*, **433**, 2015, p.186-196, arXiv
7. B. Kadets “On some properties defining the derivative” – *Matematicheskoe Prosvetshenie*, **3 17**, 2013, p.130-135 (in Russian)

Preprints

1. S. Hashimoto and B. Kadets “38406501359372282063949 & all that: Monodromy of Fano Problems” – preprint, arXiv
2. B. Kadets “Sectional monodromy groups of projective curves” – preprint, arXiv

Research Talks

- “38406501359372282063949 & all that: Monodromy of Fano problems”, Stanford algebraic geometry seminar
- “Number of points on abelian varieties over finite fields”, University of Washington number theory seminar
- “Monodromy of hyperplane sections of projective curves”, Joint Mathematics Meeting, Denver, CO, 2020
- “Monodromy of hyperplane sections of projective curves”, AMS Western Sectional Meeting, Riverside, CA, 2019
- “Sectional monodromy groups of projective curves”, Number Theory seminar, UW Madison, 2019
- “Sectional monodromy groups of projective curves”, Algebra seminar, Georgia Tech., 2019

Other activities

- STAGE (Seminar on Topics in Arithmetic, Geometry, Etc.) co-organizer, MIT, Fall 2019
- Math Research Community ”Explicit Methods in Arithmetic Geometry in Characteristic p ” assistant, 2019
- MIT Friends of the Arts co-organizer, 2018-2019
- STAGE (Seminar on Topics in Arithmetic, Geometry, Etc.) co-organizer, MIT, Fall 2018
- STAGE (Seminar on Topics in Arithmetic, Geometry, Etc.) co-organizer, MIT, Spring 2017
- SPUR (Summer Program in Undergraduate Research) mentor, MIT, 2016
- PRIMES (Program for Research in Mathematics, Engineering and Science for High School Students) mentor, MIT, 2015-2016
- Co-organizer of Kharkiv Undergraduate Math Seminar 2014-2015
- Mentor of a high school olympiad circle, Kharkiv 2011-2015