

ALEXEY BESHENOV

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Birth date: February 24 1989, USSR

Citizenship: Russian

ACADEMIC INTERESTS

- algebraic geometry
- number theory
- special values of zeta functions
- Weil-étale cohomology
- motivic cohomology

EDUCATION

- **2014–2018:** University of Bordeaux (France), Leiden University (Netherlands).

ALGANT DOC Program, European Union scholarship.

PhD in mathematics.

Thesis "Zeta-values of arithmetic schemes at negative integers and Weil-étale cohomology", supervised by Baptiste Morin (Bordeaux) and Bas Edixhoven (Leiden).

Defense: Leiden, December 10, 2018.

Referees: S. Lichtenbaum (Brown University), N. Ramachandran (University of Maryland).

- **2012–2014:** University of Milan (Italy), University of Bordeaux (France).

ALGANT Master Program, European Union scholarship.

MSc in Mathematics.

MSc thesis on algebraic K theory, supervised by Boas Erez (Bordeaux).

- **2010–2012:** University of the Russian Academy of Sciences, Saint Petersburg, Department of Mathematics and Computer Science.

MSc in theoretical computer science, diploma cum laude.

Thesis advisor: Dmitrii Pasechnik.

WORK EXPERIENCE

- **October 2019 – November 2020:** Center for Research in Mathematics (CIMAT), Guanajuato, Mexico, **visiting researcher**.
Hosts: Xavier Gómez Mont, Pedro Luis del Ángel.
- **February 2018 – August 2019:** University of El Salvador, Natural Sciences Faculty, School of Mathematics, **visiting professor**.
Colaboration with the Ministry of Education of El Salvador, to support the master program in pure mathematics. Lectures for master and bachelor students, editing of [teaching materials](#), etc.

TALKS

- **October 2021:** 54 Congreso Nacional de la Sociedad Matemática Mexicana (online)
- **June 2021:** V Encuentro Conjunto de la Real Sociedad Matemática Española y la Sociedad Matemática Mexicana, Guanajuato (online)
- **May 2021:** Seminar on \mathbb{A}^1 -topology, motives and K-theory, Saint Petersburg (online)
- **March 2021:** Number theory seminar UAM-ICMAT, Madrid (online)
- **February 2020:** Coloquio Oaqueño de Matemáticas, IMUNAM, Oaxaca
- **December 2019:** First IMSA Conference, IMUNAM/CINVESTAV, Mexico City
- **November 2019:** Universidad Autónoma de Zacatecas (three talks)
- **October 2019:** XIII Algebra and Topology Workshop, IMUNAM, Cuernavaca
- **October 2019:** Algebraic geometry seminar, CIMAT, Guanajuato
- **May 2019:** Samuel Gitler Conference, CINVESTAV, Mexico City
- **December 2017:** Algebra, geometry and number theory seminar, Leiden

MATHEMATICAL WRITING

- Alexey Beshenov, Margaret Bilu, Yuri Bilu, Purusottam Rath, *Rational points on analytic varieties*, EMS Surv. Math. Sci. 2 (2015), no. 1, 109–130.
<https://doi.org/10.4171/EMSS/10>
- Alexey Beshenov, *Zeta-values of arithmetic schemes at negative integers and Weil-étale cohomology*, PhD thesis, Leiden, December 2018.
<https://openaccess.leidenuniv.nl/handle/1887/68224>
- Alexey Beshenov, *Weil-étale cohomology and duality for arithmetic schemes in negative weights*, 2020, preprint arXiv 2012.11034, submitted for publication.
<https://arxiv.org/abs/2012.11034>
- Alexey Beshenov, *Weil-étale cohomology and zeta-values of arithmetic schemes at negative integers*, 2021, preprint arXiv 2102.12114, submitted for publication.
<https://arxiv.org/abs/2102.12114>

- Alexey Beshenov, *Zeta-values of one-dimensional arithmetic schemes at strictly negative integers*, 2021, preprint arXiv 2111.13398, submitted for publication.
<https://arxiv.org/abs/2111.13398>

TEACHING EXPERIENCE

One-semester courses

- Fall 2020: **Algebraic number theory**, Master program in pure mathematics, CIMAT, Guanajuato.
- Spring 2019: **Computational commutative algebra (Gröbner bases)** for master students, University of El Salvador.
- Spring 2019: **Algebra I (rings and groups)** for undergraduate students, University of El Salvador.
- Spring 2018: **Commutative algebra** for master students, University of El Salvador.
- Fall 2018: **Algebra II (rings and fields)** for undergraduate students, University of El Salvador.
- Spring 2018: **Algebra I (groups)** for undergraduate students, University of El Salvador.

Minicourses

- Fall 2019: **Around arithmetic zeta functions**, CIMAT, Guanajuato.
- August 2019: **Scheme theory** for master students, University of El Salvador.
- November 2018: **Quadratic reciprocity law** for undergraduate students, University of El Salvador.
- July 2018: **Reciprocity laws from Gauss to Artin**, University of El Salvador.
- June 2018: **Category theory** for master students, University of El Salvador.
- April 2018: **p-adic numbers** for master students, University of El Salvador.
- February 2018: **Bernoulli numbers**, University of El Salvador.
- August-september 2016: **Homological algebra**, University of El Salvador.

LANGUAGES

Russian (native); Spanish, English (fluent); French, Italian (intermediate).

COMPUTER SKILLS

GNU/Linux, LaTeX, programming, computer algebra systems: PARI/GP, Sage, Macaulay2, GAP4.

REFERENCES

- [Baptiste Morin](#) (University of Bordeaux)
- [Matthias Flach](#) (Caltech)
- [Niranjan Ramachandran](#) (University of Maryland)
- [Bas Edixhoven](#) (Leiden University)
- Pedro Luis del Ángel (CIMAT)
- Xavier Gómez Mont (CIMAT)