

Lucile DEVIN

website : <http://www.math.chalmers.se/~devin/>

Employement

- 2020–Present **Post-doctoral Fellow**, *Chalmers University of Technology*, Gothenburg.
with Anders Södergren.
- 2019–2020 **Post-doctoral Fellow**, *Centre de Recherches Mathématiques*, Université de Montréal.
with Andrew Granville and Chantal David.
- 2017–2019 **Post-doctoral Fellow**, *University of Ottawa*.
with Daniel Fiorilli.

Research Interests

Chebyshev bias, L -functions over number fields and function fields, Low-lying zeros in families of L -functions, Chebotarev Density Theorem, reduction modulo primes numbers of varieties defined over \mathbf{Z} , Large sieve.

Publications

Published in peer-reviewed journals

1. Lucile Devin, *On the Congruence Class Modulo Prime Numbers of the Number of Rational Points of a Variety*, International Mathematics Research Notices, Volume 2018, Issue 14, July 2018, Pages 4450–4479. doi.org/10.1093/imrn/rnx028.
2. Lucile Devin, *Chebyshev's Bias for Analytic L -Functions*, Mathematical Proceedings of the Cambridge Philosophical Society, 169 (2020), no. 1, 103–140. doi.org/10.1017/S0305004119000100.
3. Lucile Devin, *Limiting properties of the distribution of primes in an arbitrarily large number of residue classes*, Canadian Mathematical Bulletin, 63 (2020), no. 4, 837–849. doi.org/10.4153/S0008439520000089

Preprints

4. Lucile Devin and Xianchang Meng, *Chebyshev's bias for products of irreducible polynomials*, arXiv:1809.09662.
5. Lucile Devin, Daniel Fiorilli and Anders Södergren, *Low-lying zeros in families of holomorphic cusp forms: the weight aspect*. arXiv:1911.08310
6. Lucile Devin, *Discrepancies in the distribution of Gaussian primes*, arXiv:2105.02492.
7. Chantal David, Lucile Devin, Jeremy Schlitt, Jungbae Nam, *Lemke Oliver and Soundararajan bias for consecutive sums of two squares*, arXiv:2105.05048.

Education

- 2014–2017 **PhD in Mathematics**, *Université Paris-Sud*, Orsay.
Supervised by Florent Jouve, defense: 26/06/2017.
Algebraic and analytic properties of some sequences over prime numbers.
- 2013–2014 **Master in Mathematics (M2 Analyse Arithmétique et Géométrie)**, *Université Paris Sud*, Orsay.
Master thesis: *Quelques applications de la méthode de Stepanov*, supervised by Florent Jouve.
- 2013 **Agrégation de Mathématiques**.
(French exam to teach in secondary school)
- 2012–2013 **Master in Mathematics Education (Formation des Enseignants du Supérieur)**, *ENS Cachan*.
- 2010–2012 **Bachelor in Mathematics (Magistère de Mathématiques Fondamentales et Appliquées)**, *Université Paris Sud*, Orsay.
Award : Bourse d'excellence France–Europe FMJH for the year 2011–2012.

2008–2010 **CPGE MPSI-MP***, *Lycée du Parc*, Lyon, (French program preparing the entrance in engineering schools).

Teaching

- Winter 2020 **Lecturer**, *Université de Montréal*, Montréal.
MAT 1101: Mathématiques fondamentales (for future math teachers)
- 2017–2018 **Part-time Professor**, *University of Ottawa*, Ottawa.
Fall 2017: MAT 1722, Calcul différentiel et intégral II,
Winter 2018: MAT 1322, Calculus II
- 2014–2017 **Teaching assistant**, *IUT*, Orsay.
General mathematics and algorithmic exercises sessions for undergraduate students.
- 2013–2014 **Colles**, *Lycée Blaise Pascal*, Orsay.
Inspector for oral tests in *Classes préparatoires aux grandes écoles*.

Vulgarization

2015–2017 **Interventions in elementary schools for the “Fête de la Science”**, Essonne.

Research related activities

Supervision

- Undergrad.** 2019, Stella Nam, *Futurama’s Theorem*, McGill, Montréal.
- Summer Projects** 2020, Jeremy Schlitt, *Lemke Oliver and Soundararajan bias for consecutive sums of two squares*, Concordia, Montréal, co-supervision with Chantal David.
- Bachelor Thesis** 2021, Two groups *Matematiska säll och deras tillämpningar*, and *Matematiska säll, primtalstvillingar och Chens sats*, Göteborg University, co-supervision with Anders Södergren.

Seminar and conference organization

- 2018–2020 **Co-organization of the Analytic Number Theory Learning Seminar**, *Université de Montréal*.
- 2015–2017 **Organization of a weekly workshop on analytic number theory**, *Université Paris-Sud and IHP*.
- Jun. 2021 **Co-organisation of a session in the Canadian Mathematical Society Meeting**, *University of Ottawa*.
Amicale de théorie des nombres en hommage à Robert Langlands

Reviewing activities

Referee for various mathematical journals (Algebra Number Theory, Exp. Math., IMRN)

Languages

French	<i>Native Language</i>	Spanish	<i>Basic</i>
English	<i>Fluent</i>	Swedish	<i>Beginner</i>

Talks and Conferences

Invited talks in conferences

- Nov. 2020 **N-cube Days XIII**, (online).
- Sep. 2020 **Palmetto Joint Arithmetic, Modularity, and Analysis Series**, (virtual).
- Dec. 2019 **Zeta functions**, *CIRM*, Luminy.
- Feb. 2019 **Shaoul Fund IAS International Workshop on Function Field Arithmetic**, *Tel Aviv University*, Tel Aviv.
- May 2018 **Junior member of the program *Probability in Number Theory***, *CRM*, Montréal.
- Jun. 2017 **Arithmétique, Géométrie, Cryptographie et Théorie des Codes**, *CIRM*, Luminy.

May 2017 **Nombres premiers et suites automatiques : aléa et déterminisme**, *CIRM*, Luminy.

Seminars

Feb. 2021 **Séminaire Teich**, *Institut de Mathématiques de Marseille*, Marseille.

Jan. 2021 **Séminaire Equipe ADA (ADN)**, *Laboratoire de Mathématiques Pure et Appliquées Joseph Liouville*, Calais.

Oct. 2020 **Analytic and Probabilistic Number Theory seminar**, (virtual).

Sep. 2020 **Seminar in Algebraic Geometry and Number Theory**, *Chalmers University of Technology and University of Gothenburg*, (virtual).

Mar. 2020 **Joint Columbia–CUNY–NYU Number Theort Seminar**, *Courant Institute*, New York.

Feb. 2020 **Tufts Algebra, Geometry, and Number Theory Seminar**, *Tufts University*.

Dec. 2019 **Séminaire de Théorie des Nombres**, *Institut Fourier*, Grenoble.

Dec. 2019 **Groups, Arithmetic & Algebraic Geometry Seminar**, *EPFL*, Lausanne.

Dec. 2019 **Séminaire et Groupe de travail Théorie des Nombres**, *LMBP*, Clermont-Ferrand.

Sep. 2019 **Number Theory lunch seminar**, *MPIM*, Bonn.

Sep. 2019 **Rencontres de théorie analytique et élémentaire des nombres**, *IHP*, Paris.

Sep. 2019 **Séminaire d'Algèbre et Théorie des nombres**, *LMB*, Besançon.

Jun. 2019 **Number Theory seminar**, *UOttawa*, Ottawa.

Mar. 2019 **Analytic Number Theory Seminar**, *Stanford University*, Stanford.

Mar. 2019 **Number Theory Seminar**, *Stanford University*, Stanford.

Mar. 2019 **FRAGMENT Seminar**, *Colorado State University*, Fort Collins.

Feb. 2019 **Séminaire Dynamique, Arithmétique, Combinatoire (Ernest)**, *Aix-Marseille Université*.

Dec. 2018 **Number Theory and Combinatorics Seminar**, *University of Lethbridge*, Lethbridge.

Feb. 2018 **Quebec-Vermont Number Theory Seminar**, *Mc Gill University*, Montréal.

Feb. 2018 **Number Theory seminar**, *York University*, Toronto.

Oct. 2017 **Number Theory seminar**, *UW*, Waterloo.

Sep. 2017 **Number Theory seminar**, *UOttawa*, Ottawa.

Mar. 2017 **Séminaire de Théorie des Nombres**, *Institut Fourier*, Grenoble.

Dec. 2016 **Séminaire de Théorie des Nombres**, *Institut Elie Cartan*, Nancy.

Oct. 2016 **Séminaire d'Algèbre et Théorie des nombres**, *LMB*, Besançon.

Oct. 2016 **Rencontres de théorie analytique et élémentaire des nombres**, *IHP*, Paris.

Jun. 2015 **Rencontres de théorie analytique et élémentaire des nombres**, *IHP*, Paris.

Contributed talks

Dec. 2020 **Canadian Mathematical Society Winter Meeting**, Montreal, (virtual).

Dec. 2018 **Canadian Mathematical Society Winter Meeting**, Vancouver.

Oct. 2018 **Quebec-Maine Number Theory Conference**, *Université Laval*, Québec.

Jul. 2018 **Canadian Number Theory Association conference**, *Université Laval*, Québec.

Jun. 2018 **Canadian Mathematical Society Summer Meeting**, *UNB*, Fredericton.

Jul. 2017 **Journées Arithmétiques**, Caen.

Jun. 2016 **École jeunes chercheurs en théorie des nombres**, *UBP*, Clermont-Ferrand.

General audience talks

Feb. 2020 **Concordia Pizza Seminar**, *Concordia University*, Montréal.

Mar. 2019 **Women in Maths club speaker series**, *University of Ottawa*, Ottawa.