

Curriculum Vitae

Sary Drappeau

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French nationality

Date of birth : August 26th 1987.

Degrees

- **Ph.D.** in Mathematics

Université Paris-Diderot, viva : November 19, 2013.

Dissertation : Entiers friables en progressions arithmétiques, et applications.

Supervisor : Régis de la Bretèche

- **Master's degree** in Fundamental Mathematics

Université Paris Diderot (September 2010).

Mention : Très bien

- **Agrégation externe** (Teaching degree) in Mathematics

Académie de Paris-Versailles. Rank : 36

- **Bachelor's degree** in Mathematics

Université Paris-Sud (September 2008).

Employment

from Sep. 2015 : Assistant professor, Aix-Marseille Université (France).

Jan. 2014 – Jul. 2015 : CRM-ISM Post-doctoral fellowship, Université de Montréal (Canada).

Sep. 2011 – Dec. 2013 : Ph.D. Fellowship, École Normale Supérieure.

Teaching assistant at Université Paris-Diderot.

Oct. 2009 – Feb. 2010 : Academic visitor at University of Bristol (United Kingdom).

Sep. 2007 – Aug. 2011 : Student fellowship at École Normale Supérieure Ulm, Paris (France).

Research

Published :

- “Sign changes of Kloosterman sums and exceptional characters” (with J. Maynard), *Proc. Amer. Math. Soc.*, to appear.
- “Statistical distribution of the Stern sequence” (with S. Bettin et L. Spiegelhofer), *Comment. Math. Helv.*, to appear.
- “Exponential sums with automatic sequences” (with C. Müllner), *Acta Arith.*, to appear.
- “Lois de répartition des diviseurs des entiers friables” (with G. Tenenbaum), *Math. Z.*, **288** (2018), vol. 3-4, pp. 1299-1326.
- “Smooth-supported multiplicative functions in arithmetic progressions beyond the $x^{1/2}$ -barrier” (with A. Granville and X. Shao), *Mathematika*, **63** (2017), vol. 3, pp. 895-918.
- “Sums of Kloosterman sums in arithmetic progressions, and the error term in the dispersion method”, *Proc. London Math. Soc.*, **114** (2017), vol. 4, pp. 684-732.
- “On the average distribution of divisors of friable numbers”, *Int. J. Number Theory*, **13** (2017), vol. 1, 153-193.
- “Remarques sur les moyennes des fonctions de Piltz sur les entiers friables”, *Quart. J. Math. (Oxford)*, **67** (2016), vol. 4, pp. 507-517.
- “Weyl sums, mean value estimates and Waring’s problem with friable numbers” (with X. Shao), *Acta. Arith.*, **176** (2016), 249-299.
- “Théorèmes de type Fouvry–Iwaniec pour les entiers friables”, *Compos. Math.*, **151** (2015), 828-862.
- “Sommes friables d’exponentielles et applications”, *Canad. J. Math.*, **137** (2015), 597-638
- “Propriétés multiplicatives des entiers friables translatés”, *Colloq. Math.*, **137** (2014), 149-164.
- “Sommes friables d’entiers friables”, *Math. Proc. Cambridge Phil. Soc.*, **154** (2013), 439-463.

Preprints :

- “Majoration du nombre de valeurs friables d’un polynôme” (with R. de la Bretèche).
- “Combinatorial identities and Titchmarsh’s divisor problem for multiplicative functions” (with B. Topalogullari).

Talks

- *Canadian Number Theory Association XV* (Québec, July 2018)
- *2e Congrès de la SMF* (Lille, June 2018)
- Workshop: *Probability in Number Theory* (Montréal, May 2018)
- *Prime Numbers and Automatic Sequences : Determinism and Randomness* (CIRM, Luminy, May 2017)
- *ELAZ 2016* (Strobl-am-Wolfgangsee, Sept. 2016)
- Spring school *Analytic Number Theory* (Tehran, May 2016)
- *MuDeRa* (Vienna, May 2016)
- Workshop: *New approach in probabilistic and multiplicative number theory* (Montréal, December 2014)
- *Québec-Vermont Number Theory Seminar* (Montréal, October 2014)
- *Prime numbers : new perspectives* (CIRM, Luminy, February 2014).
- *Journée des doctorants en Théorie des Nombres* (Nancy, November 2012).
- *Colloque Jeunes chercheurs en Théorie des Nombres* (Lyon, June 2012).

Other activities

- From September 2016, I co-organize the seminars *Ernest* and the workgroup *TAPAS* in arithmetic, at the I2M.
- In the academic year 2012-2013, I co-organized the Graduate Students Seminar at Paris–Diderot.
- During the year 2014-2015, I organized the Montreal Analytic Number Theory Seminar.