References

- Ahn, Jeoung-Hwan, & Kwon, Soun-Hi. 2014. Some explicit zero-free regions for Hecke *L*-functions. *J. Number Theory*, **145**, 433–473.
- Axler, Christian. 2016. New bounds for the prime counting function. *Integers*, **16**, Paper No. A22, 15.
- Bach, E., & Sorenson, J. 1996. Explicit bounds for primes in residue classes. Math. Comp., 65(216), 1717–1735.
- Bachman, Gennady, & Rachakonda, Leelanand. 2001. On a problem of Dobrowolski and Williams and the Pólya-Vinogradov inequality. Ramanujan J., $\mathbf{5}(1)$, 65-71.
- Backlund, R. J. 1918. Über die Nullstellen der *Riemann*schen Zetafunktion. *Acta Math.*, **41**, 345–375.
- Backlund, R.J. 1914. Sur les zéros de la fonction $\zeta(s)$ de Riemann. C. R. Acad. Sci., 158, 1979–1981.
- Baker, R., Harman, G., & Pintz, J. 2001. The difference between consecutive primes, III. *Proc. London Math. Soc.*, 83(3), 532–562.
- Balazard, M. 2012. Elementary Remarks on Möbius' Function. *Proceedings of the Steklov Intitute of Mathematics*, **276**, 33–39.
- Bastien, G., & Rogalski, M. 2002. Convexité, complète monotonie et inégalités sur les fonctions zêta et gamma, sur les fonctions des opérateurs de Baskakov et sur des fonctions arithmétiques. *Canad. J. Math.*, **54**(5), 916–944.
- Bennett, M. 2001. Rational approximation to algebraic numbers of small height: the Diophantine equation $|ax^n-by^n|=1$. J. reine angew. Math., **535**, 1–49.
- Berkane, D., Bordellès, O., & Ramaré, O. 2012. Explicit upper bounds for the remainder term in the divisor problem. *Math. of Comp.*, **81**(278), 1025–1051.
- Berment, P., & Ramaré, O. 2012. Ordre moyen d'une fonction arithmétique par la méthode de convolution. Revue de la filière mathématiques (RMS), 122(1), 1–15.
- Bombieri, E., & Pila, J. 1989. The number of integral points on arcs and ovals. *Duke Math. J.*, **59**, 337–357.
- Booker, A.R. 2006. Quadratic class numbers and character sums. *Math. Comp.*, **75**(255), 1481–1492 (electronic).
- Bordellès, O. 2002. Explicit upper bounds for the average order of $d_n(m)$ and application to class number. *JIPAM. J. Inequal. Pure Appl. Math.*, **3**(3), Article 38, 15 pp. (electronic).

- Bordellès, O. 2006. An inequality for the class number. *JIPAM. J. Inequal. Pure Appl. Math.*, **7**(3), Article 87, 8 pp. (electronic).
- Bordellès, O. 2012. Arithmetic Tales. Universitext. Springer London Heidelberg New York Dordrecht.
- Bordellès, Olivier. 2005. An explicit Mertens' type inequality for arithmetic progressions. *JIPAM. J. Inequal. Pure Appl. Math.*, **6**(3), Article 67, 10.
- Borwein, P., Ferguson, R., & Mossinghoff, M.J. 2008. Sign changes in sums of the Liouville function. *Math. Comp.*, **77**(263), 1681–1694.
- Brillhart, J., Lehmer, D.H., & Selfridge, J.L. 1975. New primality crietria and factorizations for $2^m \pm 1$. *Math. Comp.*, **29**(130), 620–647.
- Büthe, J. 2014. A Brun-Titchmarsh inequality for weighted sums over prime numbers. *Acta Arith.*, **166**(3), 289–299.
- Cazaran, J., & Moree, P. 1999. On a claim of Ramanujan in his first letter to Hardy. *Expositiones Mathematicae*, **17**, 289–312. based on a lecture given 01-12-1997 by J. Cazaran at the Hardy symposium in Sydney.
- Chen, Jingrun, & Wang, Tianze. 1989. On the distribution of zeros of Dirichlet L-functions. J. Sichuan Univ., Nat. Sci. Ed., 26.
- Cheng, Y., & Graham, S.W. 2004. Explicit estimates for the Riemann zeta function. *Rocky Mountain J. Math.*, **34**(4), 1261–1280.
- Chua, Kok Seng. 2005. Real zeros of Dedekind zeta functions of real quadratic field. *Math. Comput.*, **74**(251), 1457–1470.
- Cipolla, M. 1902. La determinatzione assintotica dell' n^{imo} numero primo. *Matematiche Napoli*, **3**, 132–166.
- Cipu, Mihai. 2015. Further remarks on Diophantine quintuples. *Acta Arith.*, **168**(3), 201–219.
- Coffey, M.W. 2006. New results on the Stieltjes constants: asymptotic and exact evaluation. *J. Math. Anal. Appl.*, **317**(2), 603–612.
- Cohen, H., & Dress, F. 1988. Estimations numériques du reste de la fonction sommatoire relative aux entiers sans facteur carré. Prépublications mathématiques d'Orsay: Colloque de théorie analytique des nombres, Marseille, 73–76.
- Cohen, H., Dress, F., & El Marraki, M. 1996. Explicit estimates for summatory functions linked to the Möbius μ -function. *Univ. Bordeaux 1*, **Prépublication**(96-7).
- Cohen, H., Dress, F., & El Marraki, M. 2007. Explicit estimates for summatory functions linked to the Möbius μ -function. Funct. Approx. Comment. Math., 37(, part 1), 51–63.

- Costa Pereira, N. 1989. Elementary estimates for the Chebyshev function $\psi(X)$ and for the Möbius function M(X). Acta Arith., **52**, 307–337.
- Cramer, H. 1936. On the order of magnitude of the difference between consecutive prime numbers. *Acta Arith.*, **2**, 23–46.
- Daboussi, H., & Rivat, J. 2001. Explicit upper bounds for exponential sums over primes. *Math. Comp.*, **70**(233), 431–447.
- Daublebsky von Sterneck, R. 1902. Ein Analogon zur additiven Zahlentheorie. Wien. Ber., 111, 1567–1601.
- Davenport, H. 1937. On some infinite series involving arithmetical functions. *Quart. J. Math.*, *Oxf. Ser.*, **8**, 8–13.
- Delange, Hubert. 1987. Une remarque sur la dérivée logarithmique de la fonction zêta de Riemann. *Collog. Math.*, **53**(2), 333–335.
- Deléglise, M., & Rivat, J. 1996a. Computing $\pi(x)$: The Meissel, Lehmer, Lagarias, Miller, Odlyzko method. *Math. Comp.*, **65**(213), 235–245.
- Deléglise, M., & Rivat, J. 1996b. Computing the summation of the Möbius function. *Exp. Math.*, **5**(4), 291–295.
- Deléglise, M., & Rivat, J. 1998. Computing $\psi(x)$. *Math. Comp.*, **67**(224), 1691–1696.
- Deshouillers, J.-M, & Dress, F. 1988. Sommes de diviseurs et structure multiplicative des entiers. *Acta Arith.*, **49**(4), 341–375.
- Deshouillers, J.-M., te Riele, H.J.J., & Saouter, Y. 1998. New experimental results concerning the Goldbach conjecture. *In:* Buhler, J.P. (ed), *Algorithmic number theory*. Lect. Notes Comput. Sci., no. 1423.
- Diamond, H.G., & Erdös, P. 1980. On sharp elementary prime number estimates. *Enseign. Math.*, **26**(3-4), 313–321.
- Dress, F. 1983/84. Théorèmes d'oscillations et fonction de Möbius. Sémin. Théor. Nombres, Univ. Bordeaux I, Exp. No 33, 33pp. http://resolver.sub.uni-goettingen.de/purl?GDZPPN002545454.
- Dress, F. 1993. Fonction sommatoire de la fonction de Möbius 1. Majorations expérimentales. *Exp. Math.*, **2**(2).
- Dress, F. 1999. Discrépance des suites de Farey. *J. Théor. Nombres Bordx.*, **11**(2), 345–367.
- Dress, F., & El Marraki, M. 1993. Fonction sommatoire de la fonction de Möbius 2. Majorations asymptotiques élémentaires. *Exp. Math.*, **2**(2).
- Dudek, Adrian W. 2015. On the Riemann hypothesis and the difference between primes. *Int. J. Number Theory*, **11**(3), 771–778.

- Duras, J.-L., Nicolas, J.-L., & Robin, G. 1999. Grandes valeurs de la fonction d_k . Pages 743–770 of: Number theory in progress, Vol. 2 (Zakopane-Kościelisko, 1997). Berlin: de Gruyter.
- Dusart, P. 1998. Autour de la fonction qui compte le nombre de nombres premiers. Ph.D. thesis, Limoges, http://www.unilim.fr/laco/theses/1998/T1998_01.pdf. 173 pp.
- Dusart, P. 1999a. Inégalités explicites pour $\psi(X)$, $\theta(X)$, $\pi(X)$ et les nombres premiers. C. R. Math. Acad. Sci., Soc. R. Can., 21(2), 53–59.
- Dusart, P. 1999b. The kth prime is greater than $k(\ln k + \ln \ln k 1)$ for $k \ge 2$. Math. Comp., **68**(225), 411–415.
- Dusart, P. 2002. Estimates for $\theta(x; k, \ell)$ for large values of x. Math. Comp., 71(239), 1137-1168.
- Dusart, P. 2010. Estimates of some functions over primes without R. H. http://arxiv.org/abs/1002.0442.
- Dusart, P. 2016. Estimates of some functions over primes without R. H. *The Ramanujan Journal*.
- El Marraki, M. 1995. Fonction sommatoire de la fonction μ de Möbius, majorations asymptotiques effectives fortes. J. Théor. Nombres Bordx., 7(2).
- El Marraki, M. 1996. Majorations de la fonction sommatoire de la fonction $\frac{\mu(n)}{n}$. Univ. Bordeaux 1, **Pré-publication**(96-8).
- Faber, L., & Kadiri, H. 2015. New bounds for $\psi(x)$. *Math. Comp.*, **84**(293), 1339–1357.
- Filaseta, M. 1990. Short interval results for squarefree numbers. *J. Number Theory*, **35**, 128–149.
- Filaseta, M., & Trifonov, O. 1996. The distribution of fractional parts with applications to gap results in number theory. *Proc. Lond. Math. Soc., III. Ser.*, **73**(2), 241–278.
- Ford, K. 2000. Zero-free regions for the Riemann zeta function. *Proceedings of the Millenial Conference on Number Theory*, **Urbana**, **IL**.
- Ford, K. 2002. Vinogradov's integral and bounds for the Riemann zeta function. *Proc. London Math. Soc.*, **85**, 565–633.
- Frolenkov, D. 2011. A numerically explicit version of the Pólya-Vinogradov inequality. *Mosc. J. Comb. Number Theory*, **1**(3), 25–41.
- Frolenkov, D. A., & Soundararajan, K. 2013. A generalization of the Pólya–Vinogradov inequality. *Ramanujan J.*, **31**(3), 271–279.

- Gabcke, W. 1979. Neue Herleitung und explizite Restabschaetzung der Riemann-Siegel-Formel. Ph.D. thesis, Mathematisch-Naturwissenschaftliche Fakultät der Georg-August-Universität zu Göttingen.
- Gallagher, P.X. 1970. A large sieve density estimate near $\sigma = 1$. Invent. Math., 11, 329–339.
- Gourdon, X., & Demichel, P. 2004. The 10¹³ first zeros of the Riemann Zeta Function and zeros computations at very large height. http://numbers.computation.free.fr/Constants/Miscellaneous/zetazeros1e13-1e24.pdf.
- Graham, S. W., & Kolesnik, G. 1991. Van der Corput's Method of Exponential Sums. London Math. Soc. Lect. Note, no. 126. Cambridge University Press.
- Granville, A., & Ramaré, O. 1996. Explicit bounds on exponential sums and the scarcity of squarefree binomial coefficients. *Mathematika*, **43**(1), 73–107.
- Granville, A., & Soundararajan, K. 2003. The distribution of values of $L(1,\chi)$. Geom. Func. Anal., 13(5), 992-1028. http://www.math.uga.edu/~andrew/Postscript/L1chi.ps.
- Granville, A., & Soundararajan, K. 2004. Errata to: The distribution of values of $L(1,\chi)$, in GAFA 13:5 (2003). Geom. Func. Anal., 14(1), 245–246.
- Granville, A., & Soundararajan, K. 2007. Large character sums: pretentious characters and the Pólya-Vinogradov theorem. *J. Amer. Math. Soc.*, **20**(2), 357–384 (electronic).
- Hall, R., & Tenenbaum, G. 1988. *Divisors*. Cambridge Tracts in Mathematics, vol. 90. Cambridge: Cambridge University Press.
- Huxley, M.N. 1996. Area, Lattice Points and Exponential Sums. Oxford Science Pub.
- Huxley, M.N., & Sargos, P. 1995. Integer points close to a plane curve of class C^n . (Points entiers au voisinage d'une courbe plane de classe C^n .). Acta Arith., **69**(4), 359–366.
- Huxley, M.N., & Sargos, P. 2006. Integer points in the neighborhood of a plane curve of class C^n . II. (Points entiers au voisinage d'une courbe plane de classe C^n . II.). Funct. Approximatio, Comment. Math., **35**, 91–115.
- Huxley, M.N., & Trifonov, O. 1996. The square-full numbers in an interval. *Math. Proc. Camb. Phil. Soc.*, **119**, 201–208.
- Ivić, A. 1977. Two inequalities for the sum of the divisors functions. *Univ. u Novom Sadu Zb. Rad. Prirod.-Mat. Fak.*, **7**, 17–21.
- Jaeschke, G. 1993. On strong pseudoprimes to several bases. *Math. Comp.*, $\mathbf{61}(204)$, 915–926.

- Jang, Woo-Jin, & Kwon, Soun-Hi. 2014. A note on Kadiri's explicit zero free region for Riemann zeta function. J. Korean Math. Soc., 51(6), 1291–1304.
- Jarník, V. 1925. Über die Gitterpunkte auf konvexen Kurven. Math. Z., 24, 500–518.
- Kadiri, H. 2002. Une région explicite sans zéros pour les fonctions L de Dirichlet. Ph.D. thesis, Université Lille 1. http://tel.ccsd.cnrs.fr/documents/archives0/00/00/26/95/index_fr.html.
- Kadiri, H. 2005. Une région explicite sans zéros pour la fonction ζ de Riemann. Acta Arith., 117(4), 303–339.
- Kadiri, H. 2008. Short effective intervals containing primes in arithmetic progressions and the seven cube problem. *Math. Comp.*, **77**(263), 1733–1748.
- Kadiri, H. 2009. An explicit zero-free region for the Dirichlet *L*-functions. *Being processed...* http://arxiv.org/pdf/math.NT/0510570.
- Kadiri, H. 2012. Explicit zero-free regions for Dedekind zeta functions. *Int. J. Number Theory*, 8(1), 125–147. http://dx.doi.org/10.1142/S1793042112500078.
- Kadiri, H. 2013. A zero density result for the Riemann zeta function. *Acta Arith.*, **160**(2), 185–200.
- Kadiri, H., & Ng, N. 2012. Explicit zero density theorems for Dedekind zeta functions. J. Number Theory, 132(4), 748-775. http://dx.doi.org/10.1016/j.jnt.2011.09.002.
- Kreminski, R. 2003. Newton-Cotes integration for approximating Stieltjes (generalized Euler) constants. *Math. Comp.*, **72**(243), 1379–1397 (electronic).
- Kulas, M. 1994. Some effective estimation in the theory of the Hurwitz-zeta function. Funct. Approx. Comment. Math., 23, 123–134 (1995).
- Landau, E. 1918. Abschätzungen von Charaktersummen, Einheiten und Klassenzahlen. Gött. Nachr., 2, 79–97.
- Lehman, R. Sherman. 1966a. On the difference $\pi(x) \text{li}(x)$. Acta Arith., 11, 397–410.
- Lehman, R.S. 1966b. Separation of zeros of the Riemann zeta-function. *Math. Comp.*, **20**, 523–541.
- Lehman, R.S. 1970. On the distribution of zeros of the Riemann zeta-function. *Proc. London Math. Soc.* (3), **20**, 303–320.
- Levin, B.V., & Fainleib, A.S. 1967. Application of some integral equations to problems of number theory. *Russian Math. Surveys*, **22**, 119–204.

- Liu, Ming-Chit, & Wang, Tianze. 2002. Distribution of zeros of Dirichlet L-functions and an explicit formula for $\psi(t,\chi)$. Acta Arith., **102**(3), 261–293.
- Logan, B. F. 1988. An interference problem for exponentials. *Michigan Math. J.*, **35**(3), 369–393.
- Louboutin, S. 1993. Majorations explicites de $|L(1,\chi)|$. C. R. Acad. Sci. Paris, **316**, 11–14.
- Louboutin, S. 1996. Majorations explicites de $|L(1,\chi)|$ (suite). C. R. Acad. Sci. Paris, **323**, 443–446.
- Louboutin, S. 1998. Majorations explicites du résidu au point 1 des fonctions zêta. J. Math. Soc. Japan, **50**, 57–69.
- Louboutin, S. 2000. Explicit bounds for residues of Dedekind zeta functions, values of L-functions at s=1, and relative class numbers. J. Number Theory, 85(2), 263–282.
- Louboutin, S. 2001. Explicit upper bounds for residues of Dedekind zeta functions and values of L-functions at s=1, and explicit lower bounds for relative class numbers of CM-fields. Canad. J. Math., **53**(6), 1194–1222.
- Louboutin, S. 2003. Explicit lower bounds for residues at s=1 of Dedekind zeta functions and relative class numbers of CM-fields. *Trans. Amer. Math. Soc.*, **355**(8), 3079–3098 (electronic).
- Louboutin, S. 2013. An explicit lower bound on moduli of Dichlet L-functions at s=1. preprint.
- Louboutin, S.R. 2005. On the use of explicit bounds on residues of Dedekind zeta functions taking into account the behavior of small primes. *J. Théor. Nombres Bordeaux*, **17**(2), 559–573.
- Louboutin, Stéphane R. 2015. An explicit lower bound on moduli of Dirichlet L-functions at s = 1. J. Ramanujan Math. Soc., $\mathbf{30}(1)$, 101-113.
- Mac Leod, R.A. 1967. A new estimate for the sum $M(x) = \sum_{n \leq x} \mu(n)$. Acta Arith., 13. Erratum, ibid. 16 (1969), 99-100.
- Mardjanichvili, C. 1939. Estimation d'une somme arithmétique. Comptes Rendus Acad. Sciences URSS, N. s. 22, 387–389.
- Massias, J.-P., & Robin, G. 1996. Bornes effectives pour certaines fonctions concernant les nombres premiers. *J. Théor. Nombres Bordeaux*, **8**(1), 215–242.
- Maurer, U. 1995. Fast Generation of Prime Numbers and Secure Public-Key Cryptographic Parameters. *Journal of Cryptology*, 8(3), 123–156.

- Mawia, Ramdin. 2017. Explicit estimates for some summatory functions of primes. *To appear in Integers*.
- McCurley, K.S. 1984a. Explicit estimates for the error term in the prime number theorem for arithmetic progressions. *Math. Comp.*, **42**, 265–285.
- McCurley, K.S. 1984b. Explicit estimates for $\theta(x; 3, \ell)$ and $\psi(x; 3, \ell)$. Math. Comp., 42, 287–296.
- McCurley, K.S. 1984c. Explicit zero-free regions for Dirichlet *L*-functions. *J. Number Theory*, **19**, 7–32.
- McGown, Kevin J. 2012. Norm-Euclidean cyclic fields of prime degree. *Int. J. Number Theory*, **8**(1), 227–254.
- Montgomery, H.L. 1994. Ten lectures on the interface between analytic number theory and harmonic analysis. CBMS Regional Conference Series in Mathematics, vol. 84. Published for the Conference Board of the Mathematical Sciences, Washington, DC.
- Montgomery, H.L., & Vaughan, R.C. 1973. The large sieve. Mathematika, 20(2), 119-133.
- Montgomery, H.L., & Vaughan, R.C. 1974. Hilbert's inequality. J. Lond. Math. Soc., II Ser., 8, 73–82.
- Moree, P. 2000. Approximation of singular series constant and automata. With an appendix by Gerhard Niklasch. *Manuscripta Matematica*, **101**(3), 385–399.
- Moree, P. 2004. Chebyshev's bias for composite numbers with restricted prime divisors. *Math. Comp.*, **73**(245), 425–449.
- Moree, P., & te Riele, H.J.J. 2004. The hexagonal versus the square lattice. $Math.\ Comp.$, 73(245), 451-473.
- Mossinghoff, Michael J., & Trudgian, Timothy S. 2015. Nonnegative trigonometric polynomials and a zero-free region for the Riemann zeta-function. *J. Number Theory*, **157**, 329–349.
- Nicely, T.R. 1999. New maximal primes gaps and first occurences. *Math. Comp.*, **68**(227), 1311–1315.
- Nicolas, J.-L. 2008. Quelques inégalités effectives entre des fonctions arithmétiques. Functiones et Approximatio, 39, 315–334.
- Nicolas, J.-L., & Robin, G. 1983. Majorations explicites pour le nombre de diviseurs de n. Canad. Math. Bull., 39, 485–492.
- Odlyzko, A.M. 1987. On the distribution of spacings between zeros of the zeta function. *Math. Comp.*, **48**(177), 273–308.

- Omar, S. 2001. Localization of the first zero of the Dedekind zeta function. *Math. Comp.*, 70(236), 1607-1616.
- P., Akhilesh, & Ramaré, O. 2017. Explicit averages of non-negative multiplicative functions: going beyond the main term. *Colloquium Mathematicum*, **147**, 275–313.
- Panaitopol, L. 2000. A formula for $\pi(x)$ applied to a result of Koninck-Ivić. Nieuw Arch. Wiskd. (5), $\mathbf{1}(1)$, 55–56.
- Platt, D.J. 2011. Computing degree 1 L-function rigorously. Ph.D. thesis, Mathematics. arXiv:1305.3087.
- Platt, D.J. 2013. Numerical computations concerning the GRH. Ph.D. thesis. http://arxiv.org/abs/1305.3087.
- Platt, D.J., & Ramaré, O. 2016. Explicit estimates: from $\Lambda(n)$ in arithmetic progressions to $\Lambda(n)/n$. Exp. Math., 15pp.
- Pohst, M., & Zassenhaus, H. 1989. Algorithmic algebraic number theory. Encyclopedia of Mathematics and its Applications, vol. 30. Cambridge: Cambridge University Press.
- Pomerance, C. 2011. Remarks on the Pólya-Vinogradov inequality. *Integers* (Proceedings of the Integers Conference, October 2009), **11A**, Article 19, 11pp.
- Preissmann, E. 1984. Sur une inégalité de Montgomery et Vaughan. Enseign. Math., **30**, 95–113.
- Qiu, Zhuo Ming. 1991. An inequality of Vinogradov for character sums. Shandong Daxue Xuebao Ziran Kexue Ban, 26(1), 125–128.
- Rademacher, H. 1959. On the Phragmén-Lindelöf theorem and some applications. *Math. Z.*, **72**, 192–204.
- Ramaré, O. 1995. On Snirel'man's constant. *Ann. Scu. Norm. Pisa*, **21**, 645-706. http://math.univ-lille1.fr/~ramare/Maths/Article.pdf.
- Ramaré, O. 2001. Approximate Formulae for $L(1, \chi)$. Acta Arith., 100, 245–266.
- Ramaré, O. 2002. Sur un théorème de Mertens. *Manuscripta Math.*, **108**, 483–494.
- Ramaré, O. 2004. Approximate Formulae for $L(1,\chi)$, II. Acta Arith., 112, 141–149.
- Ramaré, O. 2007. Eigenvalues in the large sieve inequality. Funct. Approximatio, Comment. Math., 37, 7–35.

- Ramaré, O. 2009. Arithmetical aspects of the large sieve inequality. Harish-Chandra Research Institute Lecture Notes, vol. 1. New Delhi: Hindustan Book Agency. With the collaboration of D. S. Ramana.
- Ramaré, O. 2012. On long κ -tuples with few prime factors. *Proc. of the London Math. Soc.*, **104**(1), 158–196.
- Ramaré, O. 2013a. Explicit estimates for the summatory function of $\Lambda(n)/n$ from the one of $\Lambda(n)$. Acta Arith., **159**(2), 113–122.
- Ramaré, O. 2013b. From explicit estimates for the primes to explicit estimates for the Moebius function. *Acta Arith.*, **157**(4), 365–379.
- Ramaré, O. 2013c. Some elementary explicit bounds for two mollifications of the Moebius function. *Functiones et Approximatio*, **49**(2), 229–240.
- Ramaré, O. 2014. Explicit estimates on the summatory functions of the Moebius function with coprimality restrictions. *Acta Arith.*, **165**(1), 1–10.
- Ramaré, O. 2015. Explicit estimates on several summatory functions involving the Moebius function. *Math. Comp.*, **84**(293), 1359–1387.
- Ramaré, O. 2016. An explicit density estimate for Dirichlet L-series. Math. Comp., 85(297), 335–356.
- Ramaré, O. 2016. Modified truncated Perron formulae. *Ann. Blaise Pascal*, **23**(1), 109–128.
- Ramaré, O., & Rumely, R. 1996. Primes in arithmetic progressions. Math. $Comp., \, \mathbf{65}, \, 397-425.$
- Ramaré, O., & Saouter, Y. 2003. Short effective intervals containing primes. *J. Number Theory*, **98**, 10–33.
- Robin, G. 1983a. Estimation de la fonction de Tchebychef θ sur le k-ième nombres premiers et grandes valeurs de la fonction $\omega(n)$ nombre de diviseurs premiers de n. Acta Arith., 42, 367–389.
- Robin, G. 1983b. Méthodes d'optimisation pour un problème de théorie des nombres. RAIRO Inform. Théor., 17, 239–247.
- Rosser, J.B. 1938. The *n*-th prime is greater than $n \log n$. Proc. Lond. Math. Soc., II. Ser., **45**, 21–44.
- Rosser, J.B. 1941. Explicit bounds for some functions of prime numbers. *American Journal of Math.*, **63**, 211–232.
- Rosser, J.B. 1949. Real roots of Dirichlet L-series. Bull. Amer. Math. Soc., 55, 906–913.
- Rosser, J.B. 1950. Real roots of Dirichlet L-series. J. Res. Nat. Bur. Standards, 505-514.

- Rosser, J.B., & Schoenfeld, L. 1962. Approximate formulas for some functions of prime numbers. *Illinois J. Math.*, **6**, 64–94.
- Rosser, J.B., & Schoenfeld, L. 1975. Sharper bounds for the Chebyshev Functions $\vartheta(X)$ and $\psi(X)$. Math. Comp., **29**(129), 243–269.
- Rumely, R. 1993. Numerical Computations Concerning the ERH. *Math. Comp.*, **61**, 415–440.
- Saouter, Y., & Demichel, P. 2010. A sharp region where $\pi(x) \text{li}(x)$ is positive. Math. Comp., **79**(272), 2395–2405.
- Schoenfeld, L. 1969. An improved estimate for the summatory function of the Möbius function. *Acta Arith.*, **15**, 223–233.
- Schoenfeld, L. 1976. Sharper bounds for the Chebyshev Functions $\vartheta(X)$ and $\psi(X)$ II. Math. Comp., **30**(134), 337–360.
- Selberg, A. 1943. On the normal density of primes in small intervals, and the difference between consecutive primes. *Archiv Math. Naturv.*, **B.47**(6), 82–105.
- Siebert, H. 1976. Montgomery's weighted sieve for dimension two. *Monatsh.* Math., 82(4), 327–336.
- Spira, R. 1969. Calculation of Dirichlet L-functions. Math. Comp., 23, 489–497.
- Stechkin, S.B. 1970. Zeros of Riemann zeta-function. Math. Notes, 8, 706–711.
- Stechkin, S.B. 1989. Rational inequalities and zeros of the Riemann zeta-function. Trudy Mat. Inst. Steklov (english translation: in Proc. Steklov Inst. Math. 189 (1990)), 189, 127–134.
- Swinnerton-Dyer, H.P.F. 1974. The number of lattice points on a convex curve. J. Number Theory, 6, 128–135.
- Titchmarsh, E.C. 1947. On the zeros of the Riemann zeta function. Quart. J. Math., Oxford Ser., 18, 4–16.
- Treviño, Enrique. 2012. The least inert prime in a real quadratic field. *Math. Comp.*, **81**(279), 1777–1797.
- Treviño, Enrique. 2015a. The Burgess inequality and the least kth power non-residue. Int. J. Number Theory, $\mathbf{11}(5)$, 1653-1678.
- Treviño, Enrique. 2015b. The least k-th power non-residue. J. Number Theory, 149, 201–224.
- Trudgian, T. 2011. Improvements to Turing's method. Math. Comp., 80(276), 2259–2279.

- Trudgian, T. 2012. A new upper bound for $|\zeta(1+it)|$. http://arxiv.org/abs/1210.6743.
- Trudgian, T. 2015a. An improved upper bound for the error in the zero-counting formulae for Dirichlet *L*-function and Dedekind zeta-function on the critical line. *Math. Comp.*, **84**(293), 1439–1450.
- Trudgian, Tim. 2015b. Bounds on the number of Diophantine quintuples. *J. Number Theory*, **157**, 233–249.
- Trudgian, Tim. 2016. Updating the error term in the prime number theorem. $Ramanujan\ J.,\ 39(2),\ 225-234.$
- Trudgian, Timothy S. 2014. An improved upper bound for the argument of the Riemann zeta-function on the critical line II. *J. Number Theory*, **134**, 280–292.
- Van de Lune, J., te Riele, H.J.J., & D.T.Winter. 1986. On the zeros of the Riemann zeta-function in the critical strip. IV. *Math. Comp.*, **46**(174), 667–681.
- van Lint, J.E., & Richert, H.E. 1965. On primes in arithmetic progressions. *Acta Arith.*, **11**, 209–216.
- Vinogradov, I.M. 2004. The method of trigonometrical sums in the theory of numbers. Mineola, NY: Dover Publications Inc. Translated from the Russian, revised and annotated by K. F. Roth and Anne Davenport, Reprint of the 1954 translation.
- von Sterneck, R.D. 1898. Bemerkung über die Summierung einiger zahlentheorischen Funktionen. *Monatsh. Math. Phys.*, **9**, 43–45.
- Ward, D. R. 1927. Some Series Involving Euler's Function. *J. London Math. Soc.*, **S1-2**(4), 210–214.
- Watkins, M. 2004. Real zeros of real odd Dirichlet L-functions. *Math. Comp.*, 73(245), 415-423. http://www.math.psu.edu/watkins/papers.html.
- Wedeniwski, S. 2002. On the Riemann hypothesis. http://www.zetagrid.net/zeta/announcements.html.
- Wolke, D. 1983. On the explicit formula of Riemann-von Mangoldt, II. J. London Math. Soc., $\mathbf{2}(28)$.
- Young, A., & Potler, J. 1989. First occurrence prime gaps. *Math. Comp.*, **52**(185), 221–224.