CURRICULUM VITAE

Cem Yalçın Yıldırım

PERSONAL DATA

Birth: July 8, 1961 in Bloomington, Indiana, U.S.A.

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ACADEMIC DEGREES

- Professor; Mathematics Department, Boğaziçi University, 2003
- Associate Professor; Mathematics Department, Boğaziçi University, 2002
- Doçent; Inter-university Council of Turkey, 1993
- Assistant Professor; Mathematics Department, Bilkent University, Ankara, Turkey 1990
- Ph.D.; Department of Mathematics, University of Toronto, 1990
- B.S.; Physics Department, METU (Middle East Technical University), Ankara, Turkey, 1982

EMPLOYMENT HISTORY

- 10/2003 : Professor; Math. Dept., Boğaziçi University
- 09/2009 12/2009: On sabbatical leave; Member; School of Mathematics, Institute for Advanced Study, Princeton NJ, USA
- \bullet 11/2002 10/2008 : Part-time researcher, TÜBİTAK Feza Gürsey Institute, Istanbul
- 10/2002 10/2003 : Associate Professor; Math. Dept., Boğaziçi University
- 02/2002 10/2002 : Instructor; Math. Dept., Boğaziçi University
- 03/1999 07/1999 : Visiting member; MSRI (Mathematical Sciences Research Institute), Berkeley, CA, USA

- 08/1995 01/1996 : On sabbatical leave at Dept. of Math. and Comp. Sci., SJSU (San Jose State University), San Jose, CA, USA
- 02/1992 01/2002 : Assistant Professor; Math. Dept., Bilkent University
- 08/1991 01/1992 : Adjunct Assistant Professor; Fordham University and Manhattan College, New York City
- \bullet 09/1990 08/1991 : Assistant Professor; Math. Dept., Bilkent University
- 1983-1990 : Graduate student, Research and Teaching Assistant; Dept. of Mathematics, University of Toronto
- 1982-1983 : Graduate student, Teaching Assistant; Dept. of Physics, SUNY (State University of New York) at Stony Brook
- 1980-1982 : Undergraduate assistant; Math. Dept., METU

SCHOLARSHIPS and AWARDS

- Boğaziçi University Foundation High Achievement in Research Award, 2017
- Co-recipient of the Frank Nelson Cole Prize in Number Theory given by the American Mathematical Society, 2014
- M. Gündüz İkeda Research Award for 2006 from Mathematics Foundation, Mathematics Department, METU, Ankara, Turkey, 2007
- Boğaziçi University Foundation High Achievement in Research Award, 2006
- TÜBİTAK NATO-B2 Research Fellowship (Scientific and Technical Research Council of Turkey) and MSRI membership, 03/1999 07/1999
- Research Fellowship, University of Toronto, 1986-1990
- University of Toronto Open Fellowship, 1983-1986
- \bullet Graduate Scholarship, SUNY at Stony Brook, 1982-1983
- Student Scholarship, TÜBİTAK, 1977-1982

GRANTS

- Funding for the stay (09/2009 12/2009) as member at the Institute for Advanced Study in Princeton provided by The Oswald Veblen Fund.
- Sabbatical leave (02/2009 02/2010) granted by Bogazici University

- Travel expenses for participation in conferences and seminar talks provided by the organizers of the events and/or by Bogazici University (2002-2011)
- Participation in the workshop 'Analytic Number Theory' (03/2008) at Mathematisches Forschungsinstitut Oberwolfach, Germany funded by the said institute and Boğaziçi University Foundation.
- Visiting (09/2007) Instituto de Matemáticas UNAM, Campus Morelia, Mexico funded by UNAM, Mexico and by Bogaziçi University.
- Visiting (09/2006) Instituto de Matemáticas UNAM, Campus Morelia, Mexico funded by UNAM, Mexico.
- Participation in the meeting 'Theory of the Riemann zeta and allied functions' (9/2004) at Mathematisches Forschungsinstitut Oberwolfach, Germany funded by the said institute and Bogaziçi University Foundation.
- \bullet Research at MSRI (03/1999 07/1999) funded by TÜBİTAK and MSRI.
- Sabbatical leave (08/1995 01/1996) granted by Bilkent University.
- Participation in 'Advanced Workshop on Arithmetic and Algebraic Geometry' at ICTP, Trieste, Italy (09/1992) supported by TÜBİTAK and ICTP.

SCHOLARLY and PROFESSIONAL DUTIES

- Editor for Turkish Journal of Mathematics, 02/2009 02/2015.
- Reviewer for Zentralblatt für Mathematik, 06/2000 -
- Reviewer for Mathematical Reviews, 12/1998 -
- Member of the Organizing Committee, 'International Workshop on Number Theory (on the occasion of 70-th birthday of Prof. M.G. İkeda)', METU, July 2-5, 1997.
- Member of the Organizing Committee of 'Summer School on Number Theory and its Applications' Bilkent University, July 29 Aug. 9, 1996, and editor of its Proceedings.
- Member of the Executive Committee, question developer, coach and coordinator (1993) for Mathematical Olympiads, TÜBİTAK, 1993-1995.
- Referee for many articles in various journals
- Jury member/referee for several academic promotions and awards, 2005 -

- Member of the Managing Committee of IMBM (Istanbul Center for Mathematical Sciences), 2006-2012
- Member of the Scientific Committee, National Mathematics Symposium of Turkey, 2006-2011.
- Member of the Scientific Steering Committee of IMBM (Istanbul Center for Mathematical Sciences), 2012-
- Member, Science Academy of Turkey (Bilim Akademisi), 2017-
- Member, Scientific Committee of 31st Journées Arithmétiques, İstanbul, 2019.
- Member of the Prize Committee of the 8th European Congress of Mathematics, 2020.
- Member of the Scientific Advisory Board of EMS (European Math. Soc.) Press, 2020-.

MEMBERSHIP

- Member, The American Mathematical Society, 1983 -
- Member, Türk Matematik Derneği, 1993 2008.

TEACHING EXPERIENCE

- **Graduate courses:** Complex Analysis, Introduction to the proof of Fermat's Last Theorem, Algebraic Number Theory, Analytic Number Theory
- Undergraduate courses: Precalculus, Calculus, Discrete Mathematics, Abstract Mathematics, Complex Calculus, Advanced Calculus, Differential Equations, Galois Theory, Elementary Number Theory,
- **Independent study supervised:** Senior undergraduate students' projects: a total of 8 students.

GRADUATE STUDENT SUPERVISION

Ph.D. Theses:

- Natalia A. Zheltukhina; "Power series with restrictions on sections or tails", Bilkent University, 2002.
- Yunus Karabulut, "Vertical distribution problems in zeta-function theory", Boğaziçi University, 2015.

M.Sc. Theses:

- Gülnihal Yücel, "Aspects of Fibonacci numbers", Bilkent University, 1994.
- Altan Erdoğan, "Some cases of the Generalized Fermat Equation", Boğaziçi University, 2008.
- Yunus Karabulut, "Some mean-value problems about Dirichlet *L*-functions and the Riemann zeta-function", Boğaziçi University, 2009.
- \bullet Deniz Ali Kaptan, "Some mean-values related to Dirichlet L-functions", Boğaziçi University, 2009.
- Kübra Benli, "The mean values of the functional equation factor χ_{ψ_1} at the zeros of $\zeta^{(k)}(s)$ and $L^{(k)}(s,\psi_2)$. Boğaziçi University, 2015.
- Ertan Elma, "Average values of the functional equation factors at the zeros of derivatives of Dirichlet L-functions". Boğaziçi University, 2015.

EDUCATIONAL DEVELOPMENT ACTIVITIES

- Work in departmental committees for the shaping of the undergraduate and graduate curricula and examining applicants for graduate study.
- Developing the contents of some courses; opening new elective courses.
- Involving students in research and writing in senior projects.
- Being the academic advisor of some students.
- Jury member for many graduate theses.
- Preparing questions and doing coaching for Mathematical Olympiads, 1993-1995.

SEMINAR TALKS

- University of Toronto, Math. Dept., Number Theory Seminar talk: 'Zeta-function theory: Pair correlation and value distribution', Apr. 3, 1990.
- January 1991 San Francisco Meetings of the American Math. Soc. with a contributed paper 'A sum over the zeros of partial sums of e^x ', AMS Abstract 863-30-244.
- International Workshop on Geometry and Analysis, Mediterranean University, Antalya, Turkey, July 1992, with two lectures on analytic number theory.

- Bilkent Math. Dept. Seminar talk: 'The tails of the exponential series', Feb. 25, 1993.
- METU Math. Dept. General Seminar talk: 'The tails of the exponential series', Mar. 11, 1993.
- Complex Analysis Week at METU, April 1993, with a talk titled 'The Partial Sums and Tails of the Exponential Series'.
- Algebraic Geometry and Arithmetic Workshop, Mediterranean University, Antalya, Turkey, June 1993, with a survey talk on 'Irrational Numbers and the Irrationality of $\zeta(3)$ '.
- Lecturer, Summer School for preparing students for International Mathematics Olympiad, Trakya University, Edirne, Turkey, Aug. 1993.
- Schönheit im Chaos, an exhibition at the German Cultural Institute, Ankara, Turkey, Sept. 30, 1994, with an invited talk on fractals.
- Bilkent Math. Dept. Seminar talk: 'On the derivatives of Dirichlet *L*-functions', Oct. 12, 1994.
- San Jose State University Algebra and number theory Seminar talk: 'On the derivatives of the Riemann zeta-function', Oct. 25, 1995.
- San Jose State University Dept. of Math. and Comp. Sci. Colloquium talk: 'The exponential series', Nov. 2, 1995.
- Bilkent Math. Dept. Seminar talk: 'Primes in arithmetic progressions in short intervals', June 3, 1996.
- Summer School on Number Theory and its Applications, Bilkent University, July 29 Aug. 9, 1996, as member of the Organizing Committee and with a survey lecture 'Primes in Short Intervals'.
- METU Math. Dept. General Seminar talk: 'The error term in the prime number theorem', Apr. 30, 1998.
- Feza Gürsey Institute, Istanbul, Seminar talk: 'On the distribution of prime numbers', July 23, 1998.
- Ankara University Math. Dept. General Seminar talk: 'The error term in the prime number theorem I', Nov. 18, 1998.
- Ankara University Math. Dept. General Seminar talk: 'The error term in the prime number theorem II', Nov. 25, 1998.

- Visiting member, Mar. July 1999, Program on Random Matrix Models and Their Applications, MSRI Berkeley. MSRI Seminar talk: 'Relations among pair-correlation functions for Dirichlet's *L*-functions', June 17, 1999.
- METU Math. Dept. General Seminar talk: 'On a lower-bound method in the theory of distribution of primes', May 5, 2000.
- Colloquium on Number Theory, University of Debrecen, Hungary, with a talk titled 'On a lower-bound method for the distribution of primes', July 6, 2000.
- METU Math. Dept. General Seminar talk: 'On the distribution of prime numbers', Oct. 18, 2001.
- Sabancı University Seminar talk: 'On the distribution of prime numbers', Nov. 12, 2001.
- Boğaziçi University Seminar talk: 'On the distribution of prime numbers', Dec. 12, 2001.
- Bilkent University Math. Dept. Analysis Seminar talk: 'Primes in short intervals', Dec. 25, 2001.
- Boğaziçi University Math Club talk: ' $\zeta(3)$ is irrational', Apr. 17, 2002.
- 2002 International Conference on subjects related to Clay problems, Chonbuk National University, South Korea; Invited speaker, with three talks on 'The Riemann zeta-function and the distribution of primes', July 9-11, 2002.
- Yonsei University, Seoul, South Korea, two seminar talks: 'Sections and tails of the exponential series', and 'Hardy-Littlewood's heuristics for the twin-primes conjecture', July 12-13, 2002.
- İstanbul Bilgi University Seminar talk: 'Primes in short intervals', Oct. 11, 2002.
- Boğaziçi University Math. Dept. Colloquium talk: 'Small gaps between prime numbers', Apr. 9, 2003.
- Turkish Mathematical Association Istanbul Mathematics Seminar talk: 'The history of prime numbers', May 12, 2003.
- Yonsei University, Seoul, South Korea; Invited speaker: 'Six lectures on the distribution of prime numbers', June 25 July 7, 2003.
- XVI National Mathematics Symposium of Turkey held in Van; Invited talk: 'On the distribution of prime numbers', Sept. 10, 2003.

- Feza Gürsey Institute, Istanbul, Seminar talk: 'Recent progress on the distribution of prime numbers', Sept. 24, 2003.
- METU Math. Dept. General Seminar talk: 'On the distribution of prime numbers', Nov. 6, 2003.
- Mathematisches Forschungsinstitut Oberwolfach, Germany; 'Theory of the Riemann zeta and allied functions' meeting seminar talk: 'An application of the triple correlations of a short divisor sum to the distribution of primes', Sept. 22, 2004
- Boğaziçi University Math. Dept. Colloquium talk: 'Small gaps between primes', June 7, 2005.
- Mathematisches Institut, Georg-August-Universität Göttingen, Germany; 'Gauss-Dirichlet Conference'; Invited speaker. Title of talk: 'Small gaps between primes', June 21, 2005.
- 16th International Conference of Jangjeon Mathematical Society held at Akdeniz University, Antalya, Turkey; Invited speaker. Title of talk: 'Small gaps between primes', July 4, 2005.
- Workshop on 'Gaps between primes' held at the American Institute of Mathematics, Palo Alto CA, U.S.A.; Invited speaker, Nov. 28 Dec. 2, 2005.
- Conference on Number Theory and Dynamical Systems held at Forschungsinstitut für Mathematik, ETH Zürich, Switzerland; Invited speaker. Title of talk: 'Small gaps between primes', Jan. 23-25, 2006.
- Instituto de Matemáticas UNAM, Campus Morelia, Mexico; Title of talk: 'Recent results on small gaps between primes', Sept. 13, 2006
- METU Math. Dept. General Seminar talk on the occasion of receiving the M. Gündüz İkeda Research Award. Title of talk: 'Small Gaps between primes', May 31, 2007.
- Feza Gürsey Institute, İstanbul, Members' Presentation; Title of talk: 'On small distances between ordinates of zeros of $\zeta(s)$ and $\zeta'(s)$ ', June 6, 2007.
- 6th International ISAAC (International Society for Analysis, its Applications and Computation) Congress held at METU, Ankara, Turkey; Aug. 13-18, 2007; Invited Speaker, Title of talk: 'Recent results on small gaps between primes',
- XX National Mathematics Symposium of Turkey held at Ataturk University, Erzurum; Invited talk: 'The existence of small gaps between primes', Sept. 3-6, 2007.

- Mathematisches Forschungsinstitut Oberwolfach, Germany; 'Analytic Number Theory' workshop talk: 'Relations between zeros of $\zeta(s)$ and $\zeta'(s)$ ', Mar. 11, 2008.
- Academy of Sciences and Arts of Bosnia and Hercegovina, Sarajevo, Invited Talk: 'Small gaps between primes', June 14, 2008.
- 4th Croatian Mathematical Congress held at University of Osijek, Croatia;
 June 17-20, 2008; Plenary lecture: 'Recent results on small gaps between primes'.
- University of Sarajevo, Invited talk: 'A brief history of the prime numbers', June 25, 2008.
- Institute for Advanced Study, Princeton, Members Seminar talk: 'Small gaps between primes, and between almost primes', Nov. 19, 2009.
- METU Math. Dept. Algebra and Number Theory Symposium; Invited talk: 'Small gaps between primes, and between almost primes', Oct. 14, 2010.
- Paul Turán Memorial Conference at Alfréd Rényi Institute of Mathematics, Budapest, Hungary; Invited talk: 'Density of small gaps between primes', Aug. 25, 2011.
- 3rd Montreal-Toronto Workshop in Number Theory at Fields Institute, University of Toronto; Invited talk: 'Correlations of zeta zeros with some sequences', Oct. 8, 2011.
- Istanbul Number Theory Meetings, Istanbul Mathematical Sciences Centre (IMBM), Boğaziçi University; Seminar talk: 'A survey of recent results on small gaps between primes', Apr. 14, 2012.
- 2012 Conference on *L*-functions, Jeju, South Korea; Invited talk: 'A survey of results on small gaps between primes', Aug. 21, 2012.
- XXV National Mathematics Symposium of Turkey held at Nigde University; Invited talk: 'Ardışık asallar', Sept. 6, 2012.
- 2nd International Eurasian Conference on Mathematical Sciences and Applications at International University of Sarajevo, Bosnia-Herzegovina; Invited talk: 'Small gaps between primes', Aug. 27, 2013.
- EMS Presidents Meeting, Istanbul Mathematical Sciences Centre (IMBM), Boğaziçi University; Seminar talk: 'Developments in the last decade about small gaps between primes', Apr. 12, 2014.
- METU Math. Dept. General Seminar talk: 'Small gaps between primes: The GPY method and recent developments', Apr. 17, 2014.

- International Conference on Algebra and Number Theory in Samsun, Turkey; Invited talk: 'Small gaps between primes: The GPY method and recent developments', Aug. 5, 2014.
- ICM 2014, The International Congress of Mathematicians, Seoul, South Korea; Invited talk (together with D. A. Goldston and J. Pintz): 'Small gaps between primes', Aug. 15, 2014.
- Caucasian Mathematical Conference I, Tbilisi, Georgia; Invited talk: 'Small gaps between primes: The GPY method and recent advancements over it', Sept. 5, 2014.
- 5-th Annual Conference of the Georgian Mathematical Union, Batumi, Georgia; Invited talk: 'Correlations of zeta zeros with some sequences', Sept. 9, 2014.
- Workshop on Bounded Gaps between Primes, American Institute of Mathematics, Palo Alto CA, USA; Invited participant, Nov. 17-21, 2014.
- UNCG Summer School in Computational Number Theory 2015, Zeta functions New Theory and computations, The University of North Carolina, Greensboro Nc, USA; Invited lecturer; Talk titles: 'Small gaps between primes: The GPY method and recent advancements over it' and 'Correlations of zeta zeros with some sequences', May 19 21, 2015.
- Caucasian Mathematics Conference III, Southern Federal University, Rostovon-Don, Russia; Plenary talk: 'The distribution of primes', Aug. 28, 2019.
- Turkish Mathematical Association meeting, İstanbul, Turkey; Tosun Terzioğlu Memorial Talk: 'The distribution of primes', Sept. 27, 2019.
- Number Theory Conference 2020 in honour of K. Györy, J. Pintz, A. Sarközy, University of Debrecen, Hungary; Plenary talk: 'Correlations of zeta zeros with some sequences', July 4, 2022.

SCHOLARLY PUBLICATIONS

Ph.D. Dissertation

"Zeta-function theory: Pair correlation and value distribution", Department of Mathematics, University of Toronto, 1990. Thesis supervisor: Professor John B. Friedlander.

Edited book

"Number Theory and its Applications, Proceedings of a summer school at Bilkent University 1996", (co-editor S.A. Stepanov); 360 pages, 13 articles by 13 authors; Marcel Dekker, New York, 1999. (MR 1661687).

Articles in refereed journals and proceedings

- "The mean value of $|\zeta(1/2+it)|^2$ at the zeros of $Z^{(k)}(t)$ ", C. R. Math. Rep. Acad. Sci. Canada, XII (1990), no. 4, 135-140; (MR 1070425).
- "A sum over the zeros of partial sums of e^x", J. Ramanujan Math. Soc.,
 6 (1991), no. 1-2, 51-66; (MR 1132346).
- "The pair correlation of zeros of Dirichlet L-functions and primes in arithmetic progressions", *Manuscripta Mathematica*, **72** (1991), no. 3, 325-334; (MR 1118550).
- "On the zeros of the sections of the exponential function", *Turk. J. Math.*, **16** (1992), no. 3, 177-182; (MR 1202971).
- "On the tails of the exponential series", Canadian Math. Bull., **37** (1994), no. 2, 278-286; (MR 1275716).
- "A note on $\zeta''(s)$ and $\zeta'''(s)$ ", *Proc. Amer. Math. Soc.*, **124** (1996), no. 8, 2311-2314; (MR 1371146).
- "Zeros of derivatives of Dirichlet L-functions", Turk. J. Math., 20 (1996), no. 4, 521-534; (MR 1432879).
- (with D.A. Goldston) "Primes in short segments of arithmetic progressions", Canadian J. Math., **50** (1998), no. 3, 563-580; (MR 1629827).
- "A survey of results on primes in short intervals" in Number Theory and its Applications, Proc. of a summer school at Bilkent University 1996 (ed.s C.Y. Yıldırım and S.A. Stepanov), pp. 307-343, Marcel Dekker, New York, 1999; (MR 1661672).
- "Zeros of $\zeta''(s)$ and $\zeta'''(s)$ in $\sigma < \frac{1}{2}$ ", Turk. J. Math., **24** (2000), no.1, 89-108; (MR 1792247).
- (with D.A. Goldston) "On the second moment for primes in an arithmetic progression", *Acta Arithmetica*, **100** (2001), no. 1, 85-104; (MR 1864629).
- "The Riemann zeta-function and the distribution of primes", in Proc. 2002 International Conference on subjects related to Clay problems (Chonbuk National University, Jeonju, South Korea), 2002, 37-94.
- (with D.A. Goldston) "Higher correlations of divisor sums related to primes I: Triple correlations", *Integers*, **3** (2003), A5, (66 pp.); (MR 1985667).
- (with D.A. Goldston, Y. Motohashi and J. Pintz) "Small gaps between primes exist", *Proc. Japan Acad.* **82** (2006), no. 4, 61-65; (MR 2222213).

- (with D.A. Goldston and J. Pintz) "Primes in Tuples III: On the difference $p_{n+\nu}-p_n$ " Funct. Approx. Comment. Math. **35** (2006), 79-89; (MR 2271608).
- (with D.A. Goldston) "Higher correlations of divisor sums related to primes II: Variations of the error term in the prime number theorem", *Proc. London Math. Soc.* (3), **95** (2007), no. 1, 199-247; (MR 2329552).
- (with D.A. Goldston) "Higher correlations of divisor sums related to primes III: Small gaps between primes", *Proc. London Math. Soc.* (3), **95** (2007), no. 3, 653-686; (MR 2368279).
- (with D.A. Goldston and J. Pintz) "The path to recent progress on small gaps between primes", in Analytic Number Theory, A tribute to Gauss and Dirichlet *Clay Math. Proc.* **7** (2007), 129-139; (MR 2362197).
- (with M.Z. Garaev) "On small distances between ordinates of zeros of $\zeta(s)$ and $\zeta'(s)$ ", Int. Mat. Res. Not. **2007**, no. 21, 14 pp.; (MR 2352220).
- (with D.A. Goldston and J. Pintz) "Primes in Tuples I", Annals of Math. (2), 2nd Ser., 170 (2009), no.2, 819-862; (MR 2552109).
- (with D.A. Goldston S.W. Graham and J. Pintz) "Small gaps between primes or almost primes", *Trans. Amer. Math. Soc.*, **361** (2009), no. 10, 5285-5330; (MR 2515812).
- (with D.A. Goldston S.W. Graham and J. Pintz) "Small gaps between product of two primes", *Proc. London Math. Soc.* (3), **98** (2009), no. 3, 741-774; (MR 2500871); "Corrigendum", *ibid.*, **106** (2013), no. 2, 477-480; (MR 3021469).
- "The distribution of primes: Conjectures vs. hitherto provables", pp. 75-108 of Further Progress in Analysis, Proc. of the 6th International ISAAC Congress held at METU, Ankara 2007 (ed.s H. G. W. Begehr, A. O. Çelebi, R. P. Gilbert), World Scientific, Singapore, 2009; (MR 2581614).
- (with D.A. Goldston and J. Pintz) "Primes in Tuples II", *Acta Mathematica* **204** (2010), no. 1, 1-47; (MR 2600432).
- (with D.A. Goldston S.W. Graham and J. Pintz) "Small gaps between almost primes, the parity problem and some conjectures of Erdös on consecutive integers", *Int. Mat. Res. Not.* **2011**, no. 7, 1439-1450; (MR 2806510).
- (with Y. Karabulut) "On some averages at the zeros of the derivatives of the Riemann zeta-function", *J. Number Theory*, **131** (2011), no. 10, 1939-1961; (MR 2811560).

- (with D.A. Goldston and J. Pintz) "Positive proportion of small gaps between consecutive primes", *Publ. Math. Debrecen*, **79/3-4** (2011), 433-444; (MR 2907978).
- (with D.A. Kaptan and Y. Karabulut) "Some mean value theorems for the Riemann zeta-function and Dirichlet *L*-functions", *Comment. Math. Univ. St. Pauli*, **60**, no. 1-2 (2011), 83-87; (MR 2951925).
- (with D.A. Goldston and J. Pintz) "Primes in Tuples IV", *Acta Arithmetica* **160** (2013), no. 1, 37-53; (MR3085151).
- (with D.A. Goldston and J. Pintz) "Small gaps between primes", Proc. of the ICM 2014 held at Seoul, South Korea; pp. 419-441 of the Invited Lectures volume, 2014.
- (with Y. Karabulut) "Some analogues of pair correlation of zeta zeros",
 pp. 113-179 of Exploring the Riemann the Zeta Function (editors: H. Montgomery, A. Nikeghbali, M. Th. Rassias), Springer, 2017.
- (with K. Benli and E. Elma) "Mean values of the functional equation factors at the zeros of derivatives of the Riemann zeta-function and Dirichlet L-functions", pp. 59-67 of Analytic Number Theory, Modular Forms and q-Hypergeometric Series (editors: G. E. Andrews, F. Garvan), Springer, 2018.
- (with A. Boysal and F. Ecevit) "A lattice sum involving the cosine function", J. Math. Anal. Appl. 463 (2018), no. 1, 134-160.
- (with D.A. Goldston, S.W. Graham, A. Panidapu, J. Pintz and J. Schettler) "Small gaps between almost primes, the parity problem, and some conjectures of Erdös on consecutive integers II", *J. Number Theory*, **221** (2021), 222-231.
- \bullet (with A. Boysal and F. Ecevit) "Asymptotic evaluation of a lattice sum associated with the Laplacian matrix", $Analysis\ Math.\ (2022)\ DOI: 10.1007/s10476-022-0167-1$

Most of my publications can be reached from the webpage: http://www.math.boun.edu.tr/instructors/yildirim/yildirim.htm

Reviews

104 reviews for *Mathematical Reviews*, and 73 reviews for *Zentralblatt für Mathematik*.

Articles in non-refereed or general journals

• "Matematikte saçmalık?" (Nonsense in mathematics?) Jan. 97 issue of the Turkish art quarterly Fol, pp. 47-49.

- Review of A. Doxiadis's book 'Uncle Petros and Goldbach's conjecture' in the literary journal *Virgül* (Mar. 2001), pp. 54-57. (re-published with a few changes in the popular math journal *Matematik Dünyası*, (Summer 2003), pp. 72-76.
- "Elementer bir limit" (An elementary limit) Matematik Dünyası, 107 (2019), 14-17.
- "Riemann zeta-fonksiyonu" *Matematik Dünyası*, **110** (2021), 33-37.