

Eren Mehmet Kiral

CONTACT INFORMATION	Sophia University Department of Information and Communication Sciences Faculty of Science and Technology	erenmehmetkiral@protonmail.com https://ekiral.github.io/
RESEARCH INTERESTS	Automorphic forms and representations, L -functions, metaplectic forms, analytic number theory.	
EDUCATION	Brown University , Providence, RI Ph.D. in Mathematics, May 2014 Advisor Jeffrey Hoffstein Thesis Title: <i>Spectral Theory and Shifted Convolution Sums in Analytic Number Theory</i> M.S. in Mathematics, May 2012 Boğaziçi University , İstanbul, Turkey. B.Sc. in Mathematics, June 2008 Graduated with GPA 3.93/4.00	
POSITIONS HELD	JSPS Fellow <i>Host Institution: Sophia University</i> . October 2018-present. Host Researcher: Maki Nakasuji Postdoc <i>Keio University</i> April 2018-September 2018. Postdoc Mentor: Kenichi Bannai Postdoc <i>MSRI Semester Program: Analytic Number Theory</i> , Mathematical Sciences Research Institute, Berkeley CA. (Spring 2017). Postdoc Mentor: Dinakar Ramakrishnan Visiting Assistant Professor <i>Texas A&M University</i> (Fall 2014- Fall 2016) Postdoc Mentor: Matthew Young Teaching Fellow Brown University. Graduate Member <i>Automorphic Forms, Combinatorial Representation Theory and Multiple Dirichlet series</i> , semester program in ICERM, Providence, RI (Spring 2013)	
HONORS AND AWARDS	2018 Fellowship 2016 AMS-Simons Travel Grant 2009 Graduate Fellowship, Brown University 2009 Dora Aksoy Award 2008 Scholarship, Vehbi Koç Foundation 2008 First rank in the Faculty of Arts and Sciences 2008 The Rectorate Special Award, Boğaziçi University	Japan Society for Promotion of Science (JSPS) An award for scientific travel Given in recognition of excellence in undergraduate mathematics Given in recognition of excellence in undergraduate mathematics Given to one person from the outgoing year for academic success and outstanding public work.
PUBLICATIONS AND PREPRINTS	<ol style="list-style-type: none">“Level reciprocity in the twisted second moment of Rankin-Selberg L-functions” joint with Nickolas Andersen <i>to appear in Mathematika</i> (2018).“The fifth moment of modular L-functions” joint with Matthew Young. arxiv:1701.07507“Kloosterman sums and Fourier coefficients of Eisenstein series” joint with Matthew Young. <i>to appear in The Ramanujan Journal</i> (2018).	

4. “Oscillatory integrals with uniformity in parameters”
joint with Ian Petrow, Matthew Young. *to appear in Journal de Théorie des Nombres de Bordeaux*. (2018) arxiv:1710.00916
5. “The Voronoi formula and double Dirichlet series”
joint with F. Zhou. *Algebra & Number Theory* vol. 10, No 10 (2016), pp. 2267-2286.
6. “Opposite sign Kloosterman sum Zeta function”
Mathematika 62, issue 02, (2016): 406-429.
7. “Bounds on sup-norms of half integral weight modular forms”
Acta Arithmetica 165 No. 4 (2014): 385-400.
8. “Counting square discriminants”
joint with T. Hulse, C. I. Kuan, L. M. Lim.
Journal of Number Theory 162, (2016): 255-274.
9. “Subconvexity for half-integral weight L -functions”
Mathematische Zeitschrift Vol 281, Issue 3 (2015): 689-722.
10. “The sign of Fourier coefficients of half integral weight cusp forms”
joint with T. Hulse, C. I. Kuan, L. M. Lim
International Journal of Number Theory 8, no. 03 (2012): 749-762.

POSTER

“Subconvexity Bounds for L -functions of Half Integer Weight Modular Forms” at the *Combinatorics Multiple Dirichlet Series and Analytic Number Theory* workshop in Institute for Computational and Experimental Research in Mathematics (ICERM), April 2013.

SELECTED
CONFERENCES
AND WORKSHOPS
ATTENDED

- *Automorphic forms and Arithmetic* Mathematisches Forschungsinstitut Oberwolfach, Workshop ID: 1736. Oberwolfach, Germany. (September 2017)
- *BIRS Workshop 13w5154 Whittaker Functions: Number theory, Geometry and Physics*, Banff International Research Station. Banff, Alberta, Canada. (October 2013)
- *International Colloquium on Automorphic forms and Representations*, Tata Institute for Fundamental Research. Mumbai, India (January 2012)
- *2011 Arizona Winter School*, Arizona State University. Tuscon, AZ. (March 2011)

INVITED
TALKS

- *Linfot Number Theory Seminar*, Bristol, UK (February 2019)
- *Number Theory mini-workshop at Sophia*, Tokyo, Japan (January 2019)
- *Sophia University Colloquium* Tokyo, Japan (December 2018)
- *Waseda University Number Theory Seminar* Tokyo, Japan (April 2018)
- *Mimar Sinan Güzel Sanatlar Üniversitesi* İstanbul, Turkey (November 2017)
- *Claremont McKenna College Colloquium* Claremont, CA. (April 2017)
- *Texas A&M Number Theory Seminar* College Station, TX. (November 2016)
- *Connecticut Summer School in Number Theory* Storrs, CT. (August 2016)
- *Louisiana State University Algebra and Number Theory Seminar*, Baton Rouge, LA (February 2016).
- *Rutgers University Number Theory Seminar*, New Brunswick, NJ. (December 2015).
- *SUNY at Buffalo Analysis Seminar*, Buffalo, NY. (October 2015).
- *Texas A&M University Number Theory Seminar*, College Station, TX. (September 2015).
- *Texas A&M University Number Theory Seminar*, College Station, TX. (October 2014).
- *Texas A&M University Number Theory Seminar*, College Station, TX. (April 2014).
- *Boğaziçi University Colloquium*, İstanbul, Turkey. (January 2014).
- *University of Colorado Number Theory Seminar*, Boulder, CO. (November 2013).
- *Five College Number Theory Seminar*, Amherst, MA. (September 2013).
- *21st National Mathematics Symposium*, Koç University, Turkey. (September 2008).

- SERVICES
- Organized the workshop on automorphic forms and L -functions in Nesin Mathematics Village, İzmir, Selçuk, Turkey, July 30-August 5, 2018.
 - Co-organized the Number Theory seminar in Texas A&M University, since 2015.
 - Co-organized a graduate student conference at Brown funded by the AMS student chapter. (May 2013)
 - Editor for “Matematik Dünyası” (World of Mathematics), a Turkish popular mathematics magazine, since 2005.

TEACHING
EXPERIENCE

Texas A&M University, College Station, TX

Communications and Cryptography	Fall 2016
Linear Algebra	Spring 2016
Discrete Mathematics	Fall 2015
Linear Algebra	Spring 2015
Calculus I	Fall 2014

Brown University, Providence, RI

as Teaching Fellow (instructor for the course)

Calculus II	Fall 2013
Multivariable Calculus	Spring 2012, Fall 2012

as Teaching Assistant

Calculus I	Spring 2011, Fall 2011
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Mathematics Village, Şirince, Selçuk, İzmir, Turkey

A non-profit initiative that promotes interest and provides training to bright high-school, undergraduate and graduate students

designed and taught courses for all levels:

Lie Algebras	Summer 2014
Coding for high school students (python)	Summer 2014
Classical Automorphic Forms	Summer 2011
Number Theory for high school students	Summer 2011
Dedekind Rings	Summer 2010
Multivariable Calculus	Summer 2010
Hilbert Spaces	Summer 2009
Multivariable Calculus	Summer 2008
Geometric Algebra	Summer 2008
Complex Analysis	Summer 2007

Boğaziçi University Istanbul, Turkey

as Teaching Assistant

Real Analysis	Spring 2010, Fall 2009
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LANGUAGES

Turkish (native), English (fluent), German (beginner).

REFERENCES

Jeffrey Hoffstein, Professor at Brown University,

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 Brown University
 Providence, RI 02912

Matthew Young, Associate Professor at Texas A&M University,

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Philippe Michel Chair of Analytic Number Theory at École polytechnique fédérale

de Lausanne (EPFL)
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1015 Lausanne, Switzerland

Brian Conrey, Executive Director of American Institute of Mathematics (AIM),
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Dorian Goldfeld, Professor at Columbia University,
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New York, NY 10027

Roman Holowinsky, Professor at Ohio State University.
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Columbus OH 43210

Dinakar Ramakrishnan Professor at Caltech
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Mathematics 253-37
Caltech, Pasadena, CA 91125

Paulo Lima-Filho (concerns teaching), Professor and Associate Head for Operations
and Undergraduate Programs at Texas A&M University,
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