Curriculum Vitae

Min Lee

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Citizenship   Republic of Korea

Research Interests

My work has been in the fields related to analytic number theory, automorphic forms and their L-functions. Briefly speaking, my research is centred around applications of the trace formulas and interface between analytic number theory, harmonic analysis and dynamical system.

Employment

Oct 2017 -	University of Bristol	Lecturer and Royal Society University Research Fellow
Sep 2014 - Sep 2017	University of Bristol	Senior Research Associate in Number Theory
Jul 2011 - Jun 2014	Brown University	Simons Postdoctoral Fellow

Education

May 2011	Ph.D. in Mathematics, Columbia University
	Thesis title: Approximate converse theorem
	Thesis advisor: Dorian Goldfeld
Aug 2006	M.A. in Mathematics, POSTECH, Republic of Korea
	Thesis title: Correspondence among Eisenstein series of weight 2
	Thesis advisor: YoungJu Choie
Feb 2004	B.S. in Mathematics and Computer Science (Cum laude), POSTECH

Research Funding and Awards

2018 - 2021	Research Grants for Research Fellows 2017
	Automorphic forms, trace formulas and harmonic analysis
	Royal Society
2017 - 2022	Royal Society University Research Fellowship
	Royal Society
2016	HIRM Focused Research Grant (£7,500, with Andrew Booker)
	Sarnak Rigidity Conjecture
	Heilbronn Institute for Mathematical Research

Preprints and Publications

1. (with Dohoon Choi, Subong Lim) *Values of Harmonic Weak Maass forms on Hecke orbits*
   submitted (2018)

2. (with Daniel El-Baz, Bingrong Huang) *Effective equidistribution of primitive rational points on expanding horospheres*
   submitted (2018)

3. (with Nikolaos Dimantis, Jeffrey Hoffstein, Eren Mehmet Kıral) *Additive Twists and a conjecture by Mazur, Rubin and Stein*
   submitted (2018)

4. (with Andrew R. Booker and M. Krishnamurthy) *New integral representations for Rankin-Selberg L-functions*
   submitted (2018)

5. (with Andrew R. Booker and Andreas Strömbergsson) *Twist-minimal trace formulas and the Selberg eigenvalue conjecture*
   submitted (2018)

6. (with Sandro Bettin, Jonathan W. Bober, Andrew R. Booker, Brian Conrey, Giuseppe Molteni, Thomas Oliver, David J. Platt and Raphael S. Steiner) *A conjectural extension of Hecke's converse theorem*
   The Ramanujan Journal, published online (2017)

7. (with Jens Marklof) *Effective equidistribution of primitive rational points on expanding horospheres*,
   IMRN (2017)

8. (with Andrew R. Booker) *The Selberg Trace formula as a Dirichlet series*,
   Forum Mathematicum (2016)

9. (with Hee Oh) *Effective circle count for Apollonian packings and closed horospheres*,
   Geometric and Functional Analysis (2013)

10. *Approximate Converse Theorem*,
    Asian Journal of Mathematics (2015)

11. (with Dorian Goldfeld and Joseph Hundley) *Fourier expansions of* GL(2) *newforms at various cusps*,
    The Ramanujan Journal (2015)

12. (with YoungJu Choie) *Correspondence among Eisenstein series of weight* 2,
    Journal of Mathematical Analysis and Applications (2008)

Invited talks at Conferences and Workshops

2018	Dec	*LMS South West and South Wales Regional Meeting 2018*, University of Exeter, UK
	Jul	*2018 HKU Number Theory Days*, The University of Hong Kong, China
	Jul	*Building Bridges: 4th EU/US Summer School +*
		Workshop on Automorphic Forms and Related Topics,
		Alfrd Rnyi Institute of Mathematics, Budapest, Hungary
	Jun	*Automorphic Forms and L-functions*
		– A Conference in Celebration of Dorian Goldfeld's 71st Birthday,
		Qingdao Campus of Shandong University, China
2017	Sep	*Automorphic Forms and Arithmetic*, Oberwolfach, Germany
	Jan	*Invited paper session on L-functions and other animals*, JMM MAA, USA
2016	Jul	*Building Bridges: 3rd EU/US Summer School +*
		Workshop on Automorphic Forms and Related Topics, University of Sarajevo, BiH
	Jul	*Second French-Korea Conference in Mathematics*, University of Bordeaux, France
	Mar	*British Mathematical Colloquium*, University of Bristol, UK
	Jan	*POSTECH 2016: 2016 Korea-Japan joint Number Theory Seminar*, POSTECH, Republic of Korea
	Jan	*Number Theory and Function Fields at the Crossroads 2016*, University of Exeter, UK
2015	Nov	*AMS Fall Eastern Sectional Meeting*, Rutgers University, NJ, USA
	Nov	*Computational Aspects of L-functions*, ICERM, RI, USA
2014	Dec	*NCTS-PMI joint workshop in Number Theory*, NCTS, Hsinchu, Taiwan
	Dec	*Families of Automorphic Forms and the Trace Formula*, BIRS, Banff, Canada
	Jul	*Analytic Number Theory and its Applications; A conference in honor of Jeff Hoffstein*,
		Perrotis College, Thessaloniki, Greece
2013	Oct	*AMS Fall Central Sectional Meeting* (meeting #1094),
		Washington University, St. Louis, MO, USA
	Apr	*Combinatorics, Multiple Dirichlet Series and Analytic Number Theory*,
		ICERM, Providence, RI, USA
	Apr	*AMS Spring Eastern Sectional Meeting* (meeting #1088),
		Boston College, Chestnut Hill, MA, USA
	Jan	*Workshop on Modular forms and Galois representations*, KIAS, Seoul, Korea
2012	Jul	*Pan Asian Number Theory Conference*, IISER, Pune, India
	Jun	*KIAS-POSTECH Number Theory Workshop - "L-functions"*, PMI, Pohang, Korea
2011	Jul	*Korea-Taiwan Workshop*, PMI, Pohang, Korea
2010	Jan	*Special Year program ANCY-Number Theory Seminar*,
		POSTECH BSRI-PMI, Pohang, Korea

Teaching Experiences

2018		University of Bristol	Analytic Number Theory (with Tim Browning)
2017		University of Bristol	Analytic Number Theory (with Dave Platt)
2016		University of Bristol	Functional Analysis (with Alexander Gorodnik)
2015		University of Bristol	Functional Analysis (with Alexander Gorodnik)
2014		Brown University	Elementary Number Theory
2012		Brown University	Honors Linear Algebra
		Brown University	Automorphic Representations and L-function for $GL(2)$ (graduate course)
2010	Summer	Columbia University	Calculus II (MATH S1102)
2009		Columbia University	College Algebra-Analytic Geometry (MATH W1003)

Academic Service

- Reviewer for *Mathematical Reviews*

- Organiser (together with A. Booker) of the workshop *Sarnak Rigidity Conjecture* at Heilbronn Institute for Mathematical Research (Jan 2017)

- Local organiser (together with A. Booker and J. Bober) of the LMFDB workshop at Bristol (Mar 2016)

- Organiser (together with A. Booker and B. Naskręcki) of the Linfoot seminar at Bristol (Sep 2016 - May 2017)

Last updated: January 23, 2019