

Moshe Adrian
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Employment

- 2015-present **Associate Professor**, CUNY, Queens College
- 2014-2015 **Postdoctoral Fellow**, University of Toronto
- 2010-2014 **Postdoctoral Fellow**, University of Utah

Education

- 2010 **PhD in Mathematics**, University of Maryland
- 2004 **BA in Mathematics**, University of Pennsylvania.
- 2004 **BS in Economics**, University of Pennsylvania.

Papers

1. *Simple supercuspidal L -packets of split special orthogonal groups over dyadic fields*, (with Guy Henniart, Eyal Kaplan, and Masao Oi), submitted.
2. *On the sharpness of the bound for the Local Converse Theorem of p -adic $GL(N)$, general N* , submitted.
3. *On the L -factors for Archimedean $GL(n)$* , (with Shuichiro Takeda), submitted.
4. *A Local converse theorem for Archimedean $GL(n)$* (with Shuichiro Takeda), accepted into Forum Mathematicum.
5. *Lifting involutions in a Weyl group to the normalizer of the torus*, Proceedings of the American Mathematical Society, Volume 150, Number 11, November 2022, pages 4989-4994.
6. *The sections of the Weyl group*, International Mathematics Research Notices, Volume 2022, Issue 10, May 2022, Pages 7654-7693.
7. *The Langlands parameter of a simple supercuspidal representation: Even orthogonal groups*, (with Eyal Kaplan), Israel J. Math. 246 (2021), no. 1, 459-485.
8. *The Langlands parameter of a simple supercuspidal representation: Symplectic groups*, (with Eyal Kaplan), Ramanujan J. 50 (2019), no. 3, 589–619.
9. *Characters of simple supercuspidal representations of $SL(2, F)$* , 145–159, Progr. Math., 328, Birkhauser/Springer, Singapore, 2019.
10. *On the sharpness of the bound for the local converse theorem of p -adic $GL(\text{prime})$* , (with Baiying Liu, Shaun Stevens, and Geo Kam-Fai Tam), Proc. Amer. Math. Soc. Ser B 5 (2018), 6–17.
11. *A remark on the Kottwitz homomorphism*, Manuscripta Math. 155 (2018), no. 1-2, 1-14.

12. *On the Langlands parameter of a simple supercuspidal representation: Odd orthogonal groups*, J. Ramanujan Math. Soc. 31 (2016), no. 2, 195-214.
13. *On the Jacquet Conjecture on the Local Converse Problem for p -adic GL_n* (with Baiying Liu, Shaun Stevens, and Peng Xu), Representation Theory 20 (2016), 1-13.
14. *Some results on simple supercuspidal representations of $GL(n, F)$* (with Baiying Liu), Journal of Number Theory 160 (2016), 117-147.
15. *On rectifiers and the tame local Langlands correspondence* (with David Roe), Math. Research Letters. 23 (2016), no. 3, 593-619.
16. *An interpretation of the tame local Langlands correspondence for p -adic $PGSp(4)$ from the perspective of real groups* (with Joshua Lansky), Israel J. Math. 206 (2015), no. 1, 353–393.
17. *A new realization of the Langlands correspondence for $PGL(2, F)$* , Journal of Number Theory 133 (2013), 446-474.
18. *On the local Langlands correspondences of DeBacker-Reeder and Reeder for $GL(n, F)$, where n is prime*, Pacific Journal of Mathematics 255-2 (2012), 257–280.
19. *A new construction of the tame local Langlands correspondence for $GL(n, F)$, n a prime*, Ph.D. Thesis.
20. *Count Models Based on Weibull Interarrival Times* (with Blake McShane, Eric Bradlow, and Peter Fader), Journal of Business and Economic Statistics (2008), Volume 26, No. 3, 369-378.

Grants

- PSC-CUNY Grant #65345-00 53 (2022-2023)
- PSC-CUNY Grant #64354-00 52 (2021-2022)
- PSC-CUNY Grant #62533-00 50 (2019-2020)
- PSC-CUNY Grant #61486-00 49 (2018-2019)
- PSC-CUNY Grant #60539-00 48 (2017-2018)
- Simons Collaboration Grant # 422638 (2016-2022)
- PSC-CUNY Grant #69591-00 47 (2016-2017)

Invited Research Talks

- University of Michigan - Lie Groups seminar (February 2023)
- University of Denver - AMS Special Session "Recent advances in the Langlands program" (May 2022)
- University of Maryland - Lie Groups seminar (March 2021)
- MIT - Lie Groups seminar (December 2019)
- University of Utah - Number Theory and Representation Theory seminar (December 2018)
- IISER, Pune, India - Conference on representation theory of p -adic groups (July 2017)

- University of Toronto, Canada (February 2016) - Number Theory Seminar
- University of Missouri - Midwest Representation Theory Conference (November 2015)
- CUNY Graduate Center - Number Theory Seminar (November 2015)
- Loyala University of Chicago - AMS Sectional Meeting Special Session on Automorphic Forms and Representations (October 2015)
- College of William and Mary - Colloquium (March 2015)
- Harvard University (December 2014) - Number Theory Seminar
- Canada Mathematical Society Winter Meeting (December 2014) - Special Session on Automorphic Forms and Representation Theory
- Ohio State University (November 2014) - Number Theory Seminar
- SUNY Buffalo (October 2014) - Algebra Seminar
- University of Toronto, Canada (April 2014) - Number Theory Seminar
- McMaster University, Canada (April 2014) - Number Theory Seminar
- Joint Mathematics Meetings, Baltimore, Maryland (January 2014) - Special Session on Recent Progress in the Langlands Program
- University of Missouri (November 2013) - Number Theory Seminar
- University of Maine (October 2013) - Maine/Quebec Number Theory Conference
- Oklahoma State University (September 2013) - Texas-Oklahoma Representations and Automorphic forms Conference V
- Shanghai Jiao Tong University, China (June 2013) - The Second Pacific Rim Mathematical Association Congress Number Theory and Representation Theory Special Session
- University of Calgary, Canada (May 2013) - West End Number Theory Seminar
- University of Oklahoma (April 2013) - Algebra and Representation Theory Seminar
- University of Chicago (February 2013) - Number Theory Seminar
- University of Illinois at Chicago (February 2013) - Number Theory Seminar
- University of Minnesota (November 2012) - Lie Theory Seminar
- University of Oklahoma (September 2012) - Texas-Oklahoma Representations and Automorphic forms Conference III
- American University (June 2012) - FRG Conference on Characters, Liftings, and Types II
- University of Toronto (March 2012) - Number Theory/Representation Theory Seminar
- ESI Institute, Vienna, Austria (February 2012) - Conference on Automorphic Forms: Arithmetic and Geometry
- University of Utah (October 2011) - Representation Theory Seminar
- Cornell University (September 2011) - AMS Eastern Sectional Meeting Representations of Local and Global Groups Special Session
- University of North Texas (September 2011) - Texas-Oklahoma Representations and Automorphic forms Conference I

- University of Colorado, Boulder (June 2011) - FRG Conference on Characters, Liftings, and Types II
- Texas Christian University (April 2011) - Department Colloquium
- University of Utah (January 2011) - Representation Theory Seminar
- University of British Columbia, Canada (December 2010) - CMA Winter Meeting p-adic groups, Automorphic forms, and Geometry Special Session
- University of Chicago (April 2010) - Number Theory Seminar
- University of Utah (April 2010) - Representation Theory Seminar
- Simon Fraser University, Canada (March 2010) - Number Theory Seminar
- Joint Mathematics Meetings, San Francisco, CA (January 2010) - Special Session on Harmonic Analysis and Representations of Reductive p-adic Groups
- University of Windsor, Canada (December 2009) - CMS Winter Meeting Lie Groups and Automorphic Forms Special Session
- American University (November 2009) - Research Seminar
- University of Maryland (October 2009) - Representation Theory Seminar
- Purdue University (February 2009) - Automorphic Forms Seminar
- University of Michigan (October 2008) - Group, Lie, and Number Theory Seminar
- American Institute of Mathematics (July 2008) - AIM Workshop Seminar

Teaching Experience

- **Instructor** - I have been an instructor for
 - Graduate level Real Analysis, Queens College, CUNY
 - Graduate level Number Theory, Queens College, CUNY
 - Linear Algebra, Queens College, CUNY
 - Graduate level Complex Variables, Queens College, CUNY
 - Introduction to Number Theory, University of Utah
 - Calculus II, University of Utah
 - Linear Algebra, University of Utah
 - Foundations of Abstract Algebra, University of Utah
 - Discrete Mathematics, University of Utah

Service

- Organizer of the special session “Recent developments in automorphic forms and representation theory” at the AMS Sectional Meeting at City University of New York, in May 2017 (May 2017).
- Organizer of the special session “Automorphic Forms and Representations” at the AMS Sectional Meeting in Loyola University of Chicago, in October 2015 (October 2015).

- Organizer of the special session “Automorphic Forms and Representation Theory” at the Canadian Mathematical Society winter session in Hamilton, Canada, in December 2014 (December 2014).
- Organizer of the special session “Recent Progress in the Langlands Program” at the Joint Mathematical Meetings in Baltimore, Maryland, in January 2014 (January 2014).
- Organizer of the University of Utah Representation Theory Seminar (Fall 2012-Spring 2014).
- Organizer of the working Number Theory Seminar at University of Utah (Fall 2010-Spring 2014).
- Implemented weekly math challenges in second grade curriculum at Bonneville Elementary School, Salt Lake City, Utah (Fall 2010).
- Organizer of University of Utah Calculus Carnival (Fall 2010, Fall 2011, Fall 2012).
- Organizer of joint University of Maryland/American University representation theory seminar (Fall 2009).
- Graduate Student Mentor (Fall 2007)
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