

Chun-Ju Lai

Visiting Postdoc Fellow

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November 22, 2016

Postdoctoral Search Committee

Department of Mathematics

University of Georgia

Athens, GA 30602

Dear Committee Members:

I am writing to apply for a *Limited Term Assistant Professorship* in your department. I am currently a visiting postdoctoral fellow at the Max Planck Institute for Mathematics in Bonn. I received my Ph.D. in May 2016 under the supervision of Weiqiang Wang at the University of Virginia.

I have done research in Lie theory in a very broad sense, and I believe some of these, such as affine Hecke algebras, quantum groups and modular representation theory, are relevant to the interests of faculty in your department like Daniel Nakano, Brian Boe, and William Graham. I am currently studying the quantum groups arising from affine quantum Schur algebras either via affine flag varieties geometrically or via affine Hecke algebras combinatorially. I also have ongoing research on the representation theory of affine Lie algebras in prime characteristic, including the irreducibility of Weyl modules and the (strong) linkage principle.

I have teaching experience at the University of Virginia as a graduate instructor with full responsibility for the class, including giving lectures, assigning homework, writing exams, assigning course grades, and supervising graduate teaching assistant.

Enclosed is the standard AMS cover letter, a curriculum vitae, a research statement, and a teaching statement. I will also have letters of recommendation sent via **MathJobs.org**. There will be research letters from Weiqiang Wang, Geordie Williamson, Pramod Achar, Ben Webster, and one teaching letter from Paul Bourdon. All my papers and preprints are available from my website <http://guests.mpi-bonn.mpg.de/cjlai>. Please let me know if there is anything else I can provide. I appreciate your time and look forward to hearing from you.

Sincerely,

Chun-Ju Lai