




David Marcil

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Education

- 2025 – present  **Paul Olum Postdoctoral Scholar, University of Oregon**
Mathematics, Algebraic Number Theory.
- 2019 – 2025  **Ph.D., Columbia University**
Mathematics, Algebraic Number Theory.
Thesis title: *p-adic L-functions for P-ordinary Hida families on unitary groups.*
Graduation date : May 2025
- 2016 – 2019  **B.Sc., McGill University**
Honours Mathematics, Minor in Computer Science.
Graduation date : May 2019

Research Publications



Journal Articles

- 1 D. Marcil, “Numerical verification of a conjecture of Harris and Venkatesh,” *Journal of Number Theory*, vol. 221, 2021, p. 484-495.

Preprints




- 1 T. L. Browning, P. Coupek, E. Eischen, *et al.*, “[Constructing vector-valued automorphic forms on unitary groups](#),” arXiv:2408.05198 [math.NT] e-print. Submitted., Aug. 2024.
- 2 D. Marcil, “[p-adic L-functions for P-ordinary Hida families on unitary groups](#),” arXiv:2409.03783 [math.NT] e-print., Sep. 2024.

Teaching

- Summer 2023  Calculus III
- Spring 2022  College Algebra and Analytic Geometry (Pre-Calculus)

Miscellaneous Experience





Invited Research Talks.

- November 2024  University of Michigan. Group, Lie, and Number Theory seminar : *p-adic L-functions for P-ordinary Hida families on unitary groups.*
-  University of California, Santa Barbara. Seminar on Geometry and Arithmetic : *p-adic L-functions for P-ordinary Hida families on unitary groups.*
-  University of Utah. Representation Theory / Number Theory Seminar : *p-adic L-functions for P-ordinary Hida families on unitary groups.*

Miscellaneous Experience (continued)

- October 2024  Princeton University. PU/IAS Number Theory seminar : *p-adic L-functions for P-ordinary Hida families on unitary groups.*
-  Massachusetts Institute of Technology. MIT Number Theory seminar : *p-adic L-functions for P-ordinary Hida families on unitary groups.*
-  University at Albany. AMS Fall Eastern Sectional Meeting : *p-adic L-functions for P-ordinary Hida families on unitary groups.*
-  Université Laval. Québec-Maine Number Theory conference : *p-adic L-functions for P-ordinary Hida families on unitary groups.*
- April 2024  Purdue University. Automorphic Forms and Representation Theory Seminar : *p-adic L-functions for P-ordinary Hida families on unitary groups.*
- February 2024  Johns Hopkins University. Junior Number Theory Days : *p-adic L-functions for P-ordinary Hida families of automorphic representations on unitary groups..*
- December 2023  Princeton University. Monodromy and Its Applications (Pre-workshop for Junior Researchers) : *Eisenstein measures for P-ordinary representations on unitary groups.*

Seminars organized.

- 2023  **Student Number Theory seminar** on *p-adic modular forms and p-adic L-functions*
- 2022  **Student Number Theory seminar** on higher Hida Theory
Co-organized with Michele Fornea.
- 2021  **Student Number Theory seminar** on *p-adic automorphic forms on Shimura varieties*
-  **Student Number Theory seminar** on eigenvarieties