

## Boya Wen

- Spring 2023: Full time at SLMath  
Postdoc fellow in Displantine Geometry  
(but I go to the other program too)
- Before & after this: postdoc at  
University of Wisconsin - Madison (till 2024)
- Got my Ph.D. from: Princeton University  
Advisor: Shu-Wu Zhang

More about me: <https://sites.google.com/view/boyawen>

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- \* A generalization of the Gross-Zagier Formula
  - Relates heights of CM cycles over Shimura Curves with derivatives of L-functions. (Joint with C. Qiu and Z. Zhang)
  - Some tools I use:
    - arithmetic intersection theory
    - harmonic analysis over graphs

Talk video available!

<https://www.msri.org/workshops/978/schedules/32938>

\* Computing rational points on quotients of the modular curve using quadratic Chabauty Algorithms. (Joint with subgroups of N. Adžaga, V. Arul, L. Beneish, M. Chen, S. Chidambaram, T. Keller, O. Padurariu)

\* Combinatorial and  $q$ -series identities inspired by integer partitions (Joint with subgroups of C. Ballantine, H. Burson, W. Craig, A. Folsom, C.-Y. Hsu, I. Negrini)