

# AMS Standard Cover Sheet

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Ph.D. Candidate in Pure Mathematics, 2021-2025

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Highest Degree held or expected Doctorate

Granting Institution Johns Hopkins University, Department of Mathematics

Date 05/2025 expected

Ph.D. Advisor: David Gepner

Thesis Title Geometric and Categorical Aspects of the Langlands Program

Primary Interest (MSC# only) 14 {math.AT} Secondary Interests 11 {math.RT}, 18 {math.KT}

Give a very brief synopsis of your current research interests in the box below (e.g. finite group actions on four-manifolds).

*My research centers on the geometric Langlands program, with a focus on the relative Langlands program of Ben-Zvi, Sakellaridis, and Venkatesh in the context of the Fargues-Fontaine curve. I am also investigating the geometrization of the metaplectic Casselman-Shalika formula and exploring deformation theory and higher category theory, emphasizing their foundational roles in algebraic geometry and representation theory.*

<https://cwlin4916.github.io/Trees/Application/Postdoc/Research.pdf>

Most recent position held, if any, post Ph.D.

University or Company \_\_\_\_\_

Position Title \_\_\_\_\_

Dates \_\_\_\_\_

Eligible for positions which requires U.S. citizenship or U.S. permanent residency: ☐ Yes ☒ No

If unsuccessful for this position, would you like to be considered for a temporary position?

☒ Yes ☐ No If yes, please check the appropriate boxes.

☒ Postdoctoral Position ☒ 2+ Year Position ☒ 1 Year Position

List the names and affiliations of individuals who will provide letters of recommendation if asked.

1. David Gepner, Johns Hopkins University, gepner@jhu.edu

2. Yiannis Sakellaridis, Johns Hopkins University, sakellar@jhu.edu

3. Xinwen Zhu, Stanford University, zhuxw@stanford.edu

4. Emily Braley, Johns Hopkins University, ebraley1@jhu.edu (teaching)

5. Daniel Khashabi, Johns Hopkins University, danielk@cs.jhu.edu

6. David Savitt, Johns Hopkins University, savitt@jhu.edu

7. David Hansen, National University of Singapore, dhansen@nus.edu.sg