

# Geometric Langlands and Real Groups

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## **Abstract**

I will discuss work with David Nadler (Northwestern U.) in which we develop an approach to the representation theory of real Lie groups based on the geometric Langlands program. The main ingredients are the geometric realization of representations on flag varieties, Bezrukavnikov's affine Hecke category, and fixed point localization for circle actions. The talk will not assume familiarity with representations of real groups or the geometric Langlands program.