

Research Statement

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I'm primarily interested in inner model theory. Most of my research has been focused on the internal theory of inner models; for example, characterizing the measures (meaning countably complete ultrafilters) in ZFC mice in terms of their extender sequence. Recently I have been thinking about iterability, and have found a way to remove a technical hypothesis for the basic iterability theorems of [1]. I'm also interested in descriptive set theory and its connections to inner model theory.

References

- [1] Donald Martin and John R. Steel: *Iteration Trees*, Journal of the American Mathematical Society, 1989, vol. 7, no. 1, pp. 1–73