Peter Holy

My research is concentrated on the Outer Model Program. This program aims to obtain Inner Model properties in forcing extensions while preserving the existence of certain large cardinals (see [1] for basic results). At the moment I am particularly interested in generalized Condensation principles in connection with the Outer Model Programme. Together with Sy Friedman, I showed that Local Club Condensation, a generalized Condensation principle we defined in [2], is consistent with an ω-superstrong cardinal.[1] My current research concentrates on another Inner Model property which is closely related to Condensation principles - namely Acceptability, and also on the further investigation of generalized Condensation principles.

References

[1] Sy D. Friedman. *Large cardinals and L-like universes.* Set theory: recent trends and applications, Quaderni di Matematica, vol. 17 pp. 93-110, 2007.

[2] Sy D. Friedman and Peter Holy. *Condensation and Large Cardinals*, Fundamenta Mathematicae 215, no. 2, pp 133–166, 2011.

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[1] κ is ω-superstrong iff it is the critical point of an elementary embedding $j\colon V \to M$ so that $V_{j^\omega(\kappa)} \subseteq M$