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He does research in topological data analysis. Most of his recent work has been on theory, but in the last year he has begun to think more about practical and computational questions.

He has wrote some articles and selected publications, as well as, "Induced Marching of Barcodes and the Algebraic Stability of Persistence", 2014; "*Studying the Shape of Data Using Topology*", 2013; "*Multidimensional Interleavings and Applications to Topological Inference*", 2013, etc.