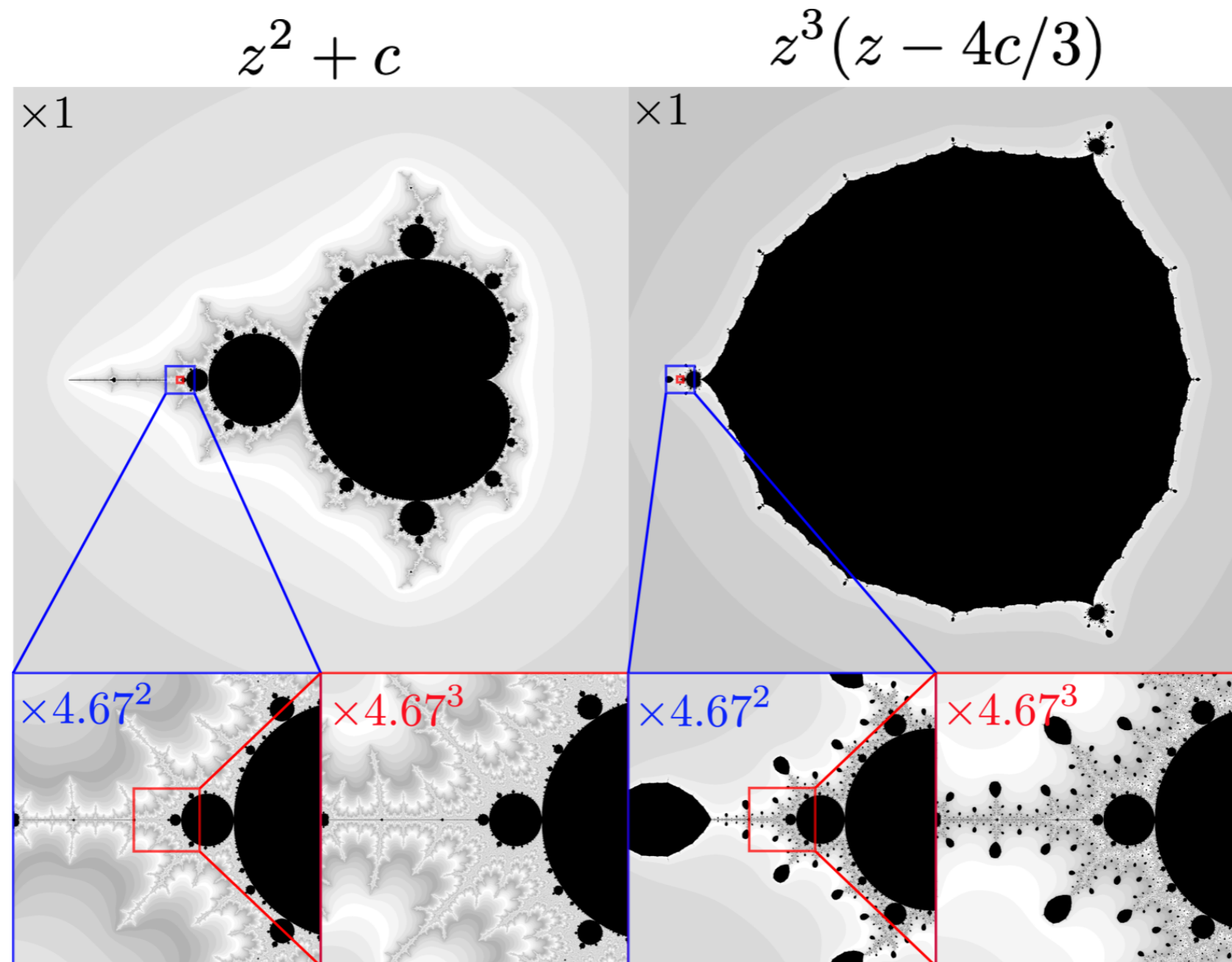


Jonguk (Jon) Yang

Stony Brook University
Postdoc in the Complex Dynamics program

Research focus: Renormalization and applications



Project 1: Renormalization of real Hénon maps

Joint with S. Crovisier, M. Lyubich and E. Pujals

Goal: Establish *a priori* bounds in a higher dimensional setting

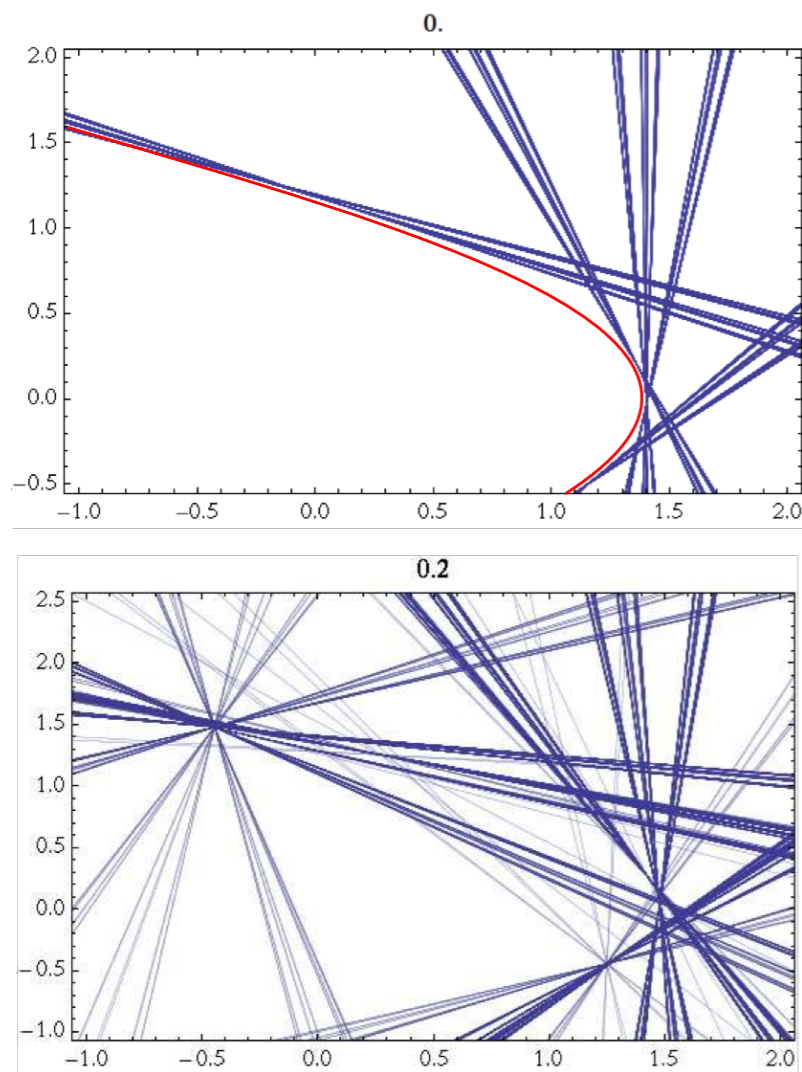


Figure 1: Transformation of directions under Hénon maps (top: 0 Jacobian; bottom: 0.2 Jacobian). From *Renormalization and non-rigidity* by S. Chandramouli

Project 2: Polynomial Siegel disks of bounded type

Joint with K. Drach

Goal: Prove structure theory, local connectivity, qc rigidity, existence of admissible combinatorics

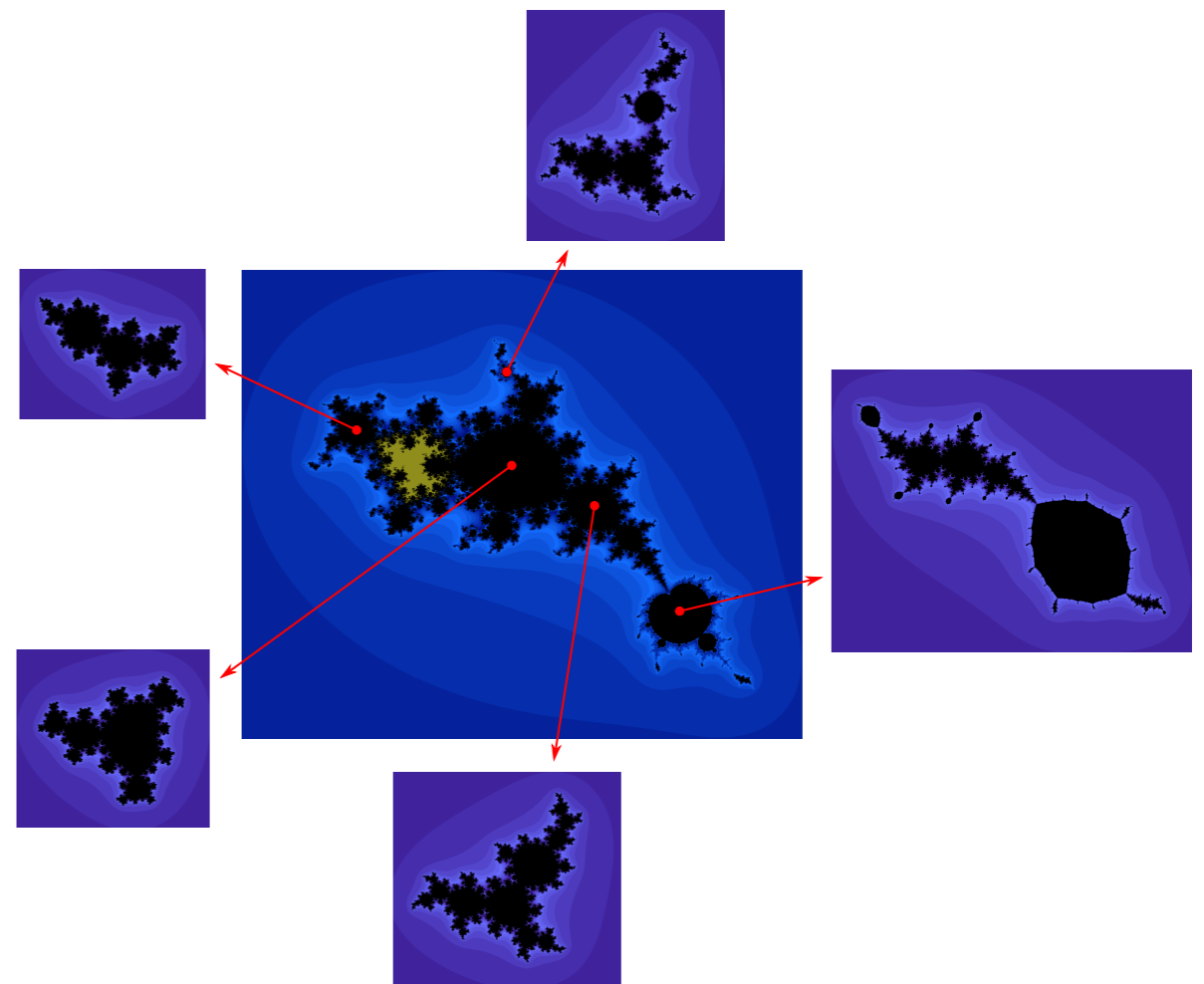


Figure 2: The parameter space of cubic polynomials with a fixed golden-mean Siegel disk.

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