The SUMO Speaker Series for Undergraduates
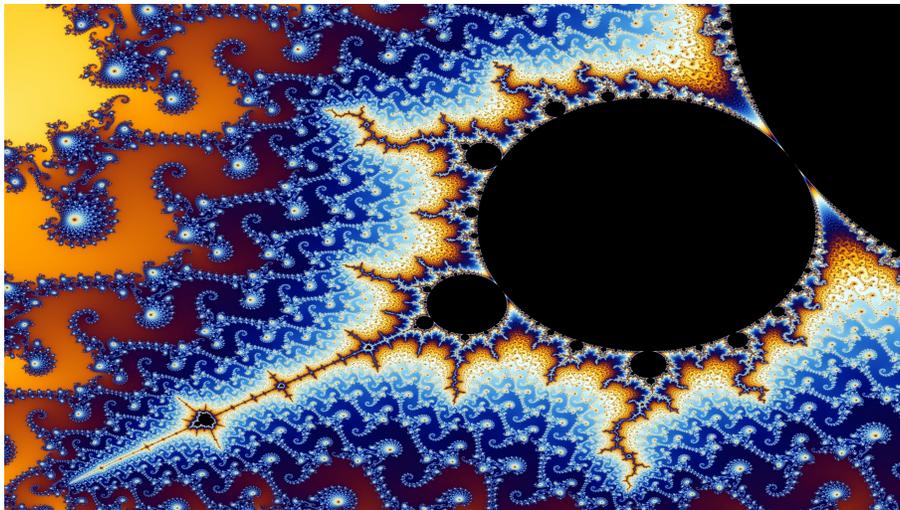
(Food Provided)
Wednesday, May 16th
4:15-5:05, room 380C

A short walk through the space of quadratic polynomials

Professor Ronen Mukamel

ABSTRACT:
Each complex number c determines a polynomial map $f\_c(z)=z\string^2+c$ from the complex plane to itself. When considering a map, such as f_c, whose domain and range are one and the same, it is tempting and often worthwhile to study its iterates.   The iterates of simple maps often display rich and intricate dynamics that one can (and many have) spent a lifetime studying. We will follow Fatou, Julia, Mandelbrot, Douady and Hubbard on a brief tour of the space of quadratic polynomials. We hope the fauna and flora will not disappoint.

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