

Samuel Russel McCandlish

Graduate Institution: Stanford University

Graduate Discipline: High Energy Theory

Hometown: Pittsburgh, PA

Relevant SC Research: High Energy Physics



Research Interest:

I would like to understand the basic physical laws governing the universe and their emergent properties using a theoretical approach. In particular, I am primarily interested in elementary particles and fields, string theory, gravity, and inflationary cosmology. I am also interested in gauge-gravity dualities and their use in understanding the electronic properties of solids.

About Me:

I graduated from Brandeis University with a B.S. in Physics and Mathematics as well as an M.S. in Physics. I will be enrolling in a Ph.D. program at Stanford University.

Previously, I have worked on developing world-line formalisms in quantum field theory and understanding the role of back-reaction in the early universe. In another project, I studied the emergent

behaviors seen in systems of propelled particles, known as active matter. I also spent a summer at the Harvard-Smithsonian Center for Astrophysics studying gravitational microlensing.

When not doing physics, I enjoy climbing trees and playing jazz piano.



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