

Ben Jacobsohn

6917 Race Horse Lane, Rockville MD 20852 | 301-366-2722 | ben.jacobsohn07@gmail.com

Highly creative thinker with a range of technical skills aiming to develop the practical capabilities of Wolfram's New Kind of Science

Education

Montgomery Blair High School

Analysis of Algorithms, Computational Methods

Chemistry, Biology, Cellular Physiology

Calculus, Physics, Quantum Physics

University of Maryland

Linear Algebra, Probability Theory

Mechanics and Relativity, Physics Labs

Object-Oriented Programming

Technical Reading

A New Kind of Science

Parallel Distributed Processing

Cambrian Intelligence

Experience

Wolfram Summer School 2019

Classified cellular automata by compression ratios

Measured effects of cellular automaton rule pieces

Constructed cellular automata with similar behavior

Wolfram Summer School 2021

Studied confluence in different multiway cellular automata

Investigated correlation between confluence and causality

Considered definitions for universality in multiway systems

Research Interests

Complex Systems / NKS

Applying complex systems to practical computations

Finding and testing universality in multiway systems

Measuring levels of emulation for universal systems

Artificial Intelligence

Building minimal machine learning models with NKS methods

Using machine learning to produce human-like thinking

Finding minimal necessary elements for brain simulation

Skills

Mathematica

Machine Learning

Linux

Python

Computer Networking

Arduino

Java

Technical Writing

Saxophone