

KENNETH COX

thekenster1729.github.io ♦ kcox1729@mit.edu

EDUCATION

Massachusetts Institute of Technology
S.B. in Mathematics, General and Biology

August 2018 - Present
GPA: 4.8/5.0

CAREER OBJECTIVE

To solve real-world problems by integrating an understanding of human institutions and decision-making with a rigorous data-driven methodology.

PROJECTS

DNA Repair via Homologous Recombination in *S. Pombe* *June 2017 - August 2018*
Worked as a research intern at the Yale University School of Medicine, in the lab of Megan King investigating the components of homologous recombination DNA repair in *S. pombe* yeast cells. Research pending publication under the title “[Homology-directed repair involves multiple strand invasion cycles in fission yeast](#)”.

Academic Projects *Spring 2020*
Merits of an Age-Compartmentalized SIR Model In Predicting Healthcare Burden From COVID-19 In Suffolk County, MA: Built a model to predict COVID-19 burden in Suffolk County, Massachusetts.
Markov Melodies: Worked with a classmate to create randomly-generated music via Markov chains.

EPPA Model Data Analysis *January 2021 - Present*
Currently working as an undergraduate research assistant on a project that analyzes data from the Emissions Prediction and Policy Analysis (EPPA) model to identify key drivers of renewable energy adoption in 2050.

TECHNICAL STRENGTHS

Modeling and Analysis	Python
Software & Tools	MS Office, Latex, Audacity

EXTRA-CIRRICULAR

Head Project Mentor, Leadership Training Institute (2020 - 2021)
LTI is a leadership and project development program hosted by MIT students for local high school students; as head PM, I re-designed the project development-focused curriculum.

Mentor, PRIMES Circle (Spring 2020)
Oversaw two high school students who were self-studying knot theory. With my guidance, the students wrote and presented a final paper.

Teaching Assistant, Differential Equations (Spring 2020)
Assisted a professor with instruction and grading for differential equations in the Spring 2020 semester.

Undergraduate Association Committee on COVID-19 (July 2020 - May 2021)
The Committee provided student feedback and support to administrators on COVID-19 related issues.

Educational Studies Program
Taught multiple one-day and multi-week classes to local middle and high school students; course material ranged from epidemiology to psychology.