

Taeer Bar-Yam

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EDUCATION

CORNELL UNIVERSITY

BA in Mathematics
Fall 2018 | Ithaca, NY
Minor in Linguistics
Cum. GPA: 3.47

COMMONWEALTH SCHOOL High School

Grad. Spr 2014 | Boston, MA

CANADA/USA MATHCAMP

Summer Camp
2013, 2014

NECSI

Two week-long Courses
2012 | Cambridge, MA
Complex Systems Winter School

THE RACKET SCHOOL

Week-long Course
2018 | Salt Lake City, UT

COURSEWORK

Computer Science

Programming Languages (Grad.)
Functional Programming
Computer Graphics
Operating Systems

Linguistics

Phonetics & Phonology
Syntax & Semantics
Historical Linguistics
Linguistic Theory of Poetic Structure

Math

Logic (Grad.)
Model Theory (Grad.)
Algebra (Grad.)
Real Analysis
Complex Analysis
Linear Algebra
Topology

Physics

Mechanics
Electromagnetism
Waves & Thermo
Quantum Mechanics

Other

Teams and Technology
Physical, Biological and Social Systems
Modeling, Networks, and Data Analytics
Kantian Moral Philosophy (Indep. Study)
IP Law

EXPERIENCE

NEW ENGLAND COMPLEX SYSTEMS INSTITUTE | Research Intern

July 2017 – Aug 2017 | Cambridge, MA
Extending an information theoretic model of complex systems to understand dynamics and applying it to anarchic/disordered societies.

MIT MEDIA LAB | Research Intern with Prof Sandy Pentland

June 2016 – Aug 2016 | Cambridge, MA
Data analysis and modeling to understand the productivity of a company over time.

BU ASL LINGUISTICS | Intern with Prof Carol Neidle

January 2012 | Cambridge, MA
Assisted with paper writing and software development for SignStream.

PROJECTS

MAR1D | https://github.com/olynch/fp_mario

Nov 2014 – Apr 2015, Oct 2016 - Present | >2,500 lines of C
Solo project to recreate the original Super Mario Bros. from a first person perspective. In a 3D first person game, you have a 2D window into that world. Similarly, in this 2D first person game, you have a 1D window into the world.

HNEFATAFL | <https://github.com/radvendii/hnefatafl>

Fall 2016 | ~1,500 lines of OCaml
A group project to program the Scandinavian chess-like game of Hnefatafl.

ARTICLES

THE INHERENT INSTABILITY OF DISORDERED SYSTEMS |

<https://arxiv.org/abs/1812.00450>

A theory paper which builds a mathematical framework for analyzing changes in a system's structure, and uses it to show that order will naturally arise in disordered systems.

HIRING TEAMS | <http://tinyurl.com/jdv4hzh>

EDUCATING TEAMS | <http://tinyurl.com/hufyeoz>

A pair of short articles on how we should be adapting the hiring process and education system to promote teams and teamwork. (Jan 2017)

A LESSON IN THE ERRORS OF STATISTICAL THINKING |

<http://tinyurl.com/hasftvl>

A short article on the failings of the assumption of independence in statistical thinking in relation to Nate Silver's predictions on Trump. (Jul 2016)

CONSIDERING COLLECTIVE AGENCY IN KANT'S ETHICS |

<http://tinyurl.com/hcllrrq>

A paper exploring the justifications and ramifications of considering groups of people as singular moral agents in Kant's moral philosophy. A way of relating the collectivist and individualist schools of thought. (Dec 2016 - Jan 2017)