Aiden Cullo
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EDUCATION

BS in Physics, Math, and Computer Science **Aug 2020**
Binghamton University *Binghamton, NY, US*
summa cum laude

EXPERIENCE

Annunciation House **Mar 2022—Jun 2022**
Shift Coordinador *El Paso, TX, US*
Helped refugees detained by border patrol reconnect with their families or sponsors, travel to their host cities, and attend their mandated court appearances.

Casa Tochan **Jan 2022—Mar 2022**
Volunteer *CDMX, MX*
Aided migrants in finding jobs, renting apartments, and petitioning the government for asylum, residency, citizenship, driver's licenses, work permits, and vaccinations.

Tree of Hopes **Oct 2021—Nov 2021**
Volunteer *Juárez, MX*
Coordinated with sponsors, lawyers, police, government officials, and healthcare professionals to support guests and safeguard their civil and informational rights.

RESEARCH

Binghamton University **Oct 2020—Nov 2020**
Research Assistant *Binghamton, NY, US*
Employed an evolutionary algorithm and neural network to search for stable alloy crystal structures. Helped parallelize the group's MAISE software package.

California Institute of Technology **Jun 2019—Aug 2019**
SURF Research Fellow *Pasadena, CA, US*
Performed scanning tunneling microscopy/spectroscopy of topological defects in the surface state of pure and Cr-doped $(BiSb)_2Te_3$-bilayer topological insulators.

Sapienza University of Rome **Jun 2018—Aug 2018**
Research Assistant *Rome, IT*
Constructed a convolutional neural network to classify particle collisions for the DarkSide-20k experiment. Generated nuclear and electron recoil event data.

NASA **Jun 2017—Aug 2017**
Software Engineer Intern *Mountain View, CA, US*
Built a library in C++ and MATLAB to represent/interpret battery metadata subject to varying degrees of uncertainty for autonomous drone fleets.

SKILLS

Languages: English (*native*), español (*fluent*), francés (*elem.*), portugués (*elem.*)
Programming Languages: C++, C, Java, Python, MATLAB, OpenMP, SQL, Lisp LaTeX
Technologies: Windows, macOS, Linux, Word, Excel, PowerPoint, Git, Vim, Emacs, Bash, Zsh, CLI

PUBLICATIONS

Samad Hajinazar, Ernesto D. Sandoval, Aiden J. Cullo, and Aleksey N. Kolmogorov. Multitribe evolutionary search for stable cu—pd—ag nanoparticles using neural network models. *Phys. Chem. Chem. Phys.*, 21:8729–8742, 2019