

Connor Duncan

connorduncan.xyz | connor@connorduncan.xyz

EDUCATION

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| 2022–2023 | UNIVERSITY OF ILLINOIS AT CHICAGO
<i>M.S. in Applied Mathematics</i> (August 2022 start) |
| 2017–2021 | UNIVERSITY OF CALIFORNIA, BERKELEY
<i>B.A. in Physics; B.A. in Applied Mathematics</i> 3.366 Overall GPA. |

RESEARCH EXPERIENCE

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| 2021–2022 | UNIVERSITY OF CALIFORNIA, BERKELEY
<i>Mathematics Researcher</i> <ul style="list-style-type: none">◊ Worked on constructing integral solution operators for de Rham complexes using fundamental solution methods. |
| SUMMER 2020 | NATIONAL RENEWABLE ENERGY LABORATORY
<i>SULI Intern</i> <ul style="list-style-type: none">◊ Developed JavaScript application visualizing the projected social and economic impact of environmental policy changes in the Los Angeles Area. |
| 2018–2020 | UNIVERSITY OF CALIFORNIA, BERKELEY; STANFORD LINEAR ACCELERATOR CENTER
<i>Research Assistant, Pyle Group</i> <ul style="list-style-type: none">◊ Developed full-stack web app to check superconducting dark matter search circuitry for short circuits.◊ Developed real-time, full-stack web app for detector readout and debugging with National Instruments' NI-DAQmx Python library.◊ Assisted with installation of Helium Dilution Refrigerator.◊ Assisted with small-scale Linux server administration and maintenance. |

TECHNICAL SKILLS

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| PYTHON | <ul style="list-style-type: none">◊ Standard data science libraries and methods, including Pandas, Numpy and Matplotlib.◊ WebServer Gateway Interface implementation using Flask, including WebSocket-based streaming through both Apache and nginx.◊ Data storage standards, such as HDF5 and SQL. |
| JAVASCRIPT | <ul style="list-style-type: none">◊ React-based web app development, especially for data visualization (using D3 and visx).◊ Node.js, babel, webpack. |
| LINUX | <ul style="list-style-type: none">◊ Enterprise distributions such as Red Hat and Debian, including essentials of package management and systemd.◊ Regular use of headless and remote environments.◊ Daily Arch Linux user since 2018. |
| ADDITIONAL SOFTWARE | <ul style="list-style-type: none">◊ LANGUAGES: MATLAB/GNU Octave, LabView, C (patching frequently-used programs), Java, Lua (remote Kiethley multimeter control), SQL, HTML/CSS, \LaTeX, Bash, Zsh◊ DEV TOOLS: Git, Redis, Vim, rsync, jq, tmux. |

OTHER EXPERIENCE

2022– PRESENT	CALISTOGA JUNIOR/SENIOR HIGH SCHOOL <i>AVID Tutor</i> <ul style="list-style-type: none">◊ Worked with primarily low-income students to develop and reinforce their competency in college-preperatory mathematics.◊ Assisted in developing additional sources of enrichment materials for use in tutorial.
2017-2019	UNIVERSITY OF CALIFORNIA, BERKELEY <i>Policy Debate Team Member</i> <ul style="list-style-type: none">◊ Division 1 champion for the 2018-2019 season.◊ Debated at the varsity collegiate level for two years. Debated all four years in high school.
SUMMER 2019 & 2018	CAL NATIONAL DEBATE INSTITUTE <i>Lab Leader and Counsellor</i> <ul style="list-style-type: none">◊ Co-taught 30 high school students in an intensive, seven week program introducing the advanced intricacies of competitive policy debate.
2017–2019	SONOMA ACADEMY <i>Assistant Debate Coach</i> <ul style="list-style-type: none">◊ Traveled with high school students on average three times each semester, provided coaching before debates, and assistance with topic research.
SUMMER 2017	COLORADO GOVERNOR’S OFFICE <i>Executive Intern</i> <ul style="list-style-type: none">◊ Helped organize the 2017 <i>Pedal The Plains</i> event by systematizing the organization of sponsors and trivia facts along the bike route.◊ Prototyped a news clip server in Java which scraped RSS feeds for office-related news and sent out a daily email.

OTHER SKILLS

SPANISH	<ul style="list-style-type: none">◊ Conversational in Spanish.◊ Studied four years in high school and participated in two homestay programs in Costa Rica and Cuba.
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