



Jacob Wolf

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Education

Stanford University

B.S. Symbolic Systems, 2019

Learning concentration

COURSEWORK

Social Computing

Computer Systems & Algorithms

Educational Philosophy

Learning Psychology

Teaching

Data Science

(Pandas, Matplotlib)

Intro. Programming

(Python, C++, Java, Scratch)

Web Development

(HTML, CSS, Bootstrap, Django)

Computer Systems & Networking

(Raspberry Pi, Unix)

Human-Centered Design

Programming

Python, Javascript, C++

Hugo, Gatsby, Django

React.js, Paper.js

Research

Literature Reviewing

Interviewing & Transcribing

Data Analysis & Visualization

(Tableau)

Qualitative Coding

(NVivo)

Activities

CS + Ed Reading Group

Tactical Internet Collective

Fierce Dragons Dragonboat

EXPERIENCE

Curriculum Designer & Teacher, Columbia Teachers College & ISF Academy

Aug 2019 - Jun 2021; Hong Kong

Designed and taught 2-year, constructionist CS course. Supported 40+ high-school students in developing personally-meaningful projects in subfields from computational art to ADTs to web app entrepreneurship. Founded CS department by developing software tools and organizational practices to cultivate computational culture throughout school.

(cs.fablearn.org/)

Makery Mentor, Stanford University

Jan 2019 - June 2019; Stanford, CA

Designed and taught a makerspace course for 20+ graduate/undergraduate students utilizing digital and physical fabrication technologies to create learning experiences. Advised students' projects and organized expert feedback sessions.

Kitchen Manager, Synergy House

Aug 2018 - June 2019; Stanford, CA

Managed a cooperative kitchen serving 50+ residents. Developed relationships with food suppliers through active communication and financial management. Evaluated consumption patterns to reduce food waste/cost while maximizing resident satisfaction.

Impact and Innovation Intern, Pathways to Education

Jun 2018 - Aug 2018; Toronto

Researched implications of learning sciences on development of education technology, focusing on constructivist learning theory and learning-centered design. Developed interactive, web-based "explorable explanation" of current trends in edtech.

PUBLICATIONS

Chris Proctor, Jenny Han, Jacob Wolf, Krates Ng, Paulo Bilkstein. 2020.

Recovering Constructionism in Computer Science: Design of a Ninth-grade Introductory Computer Science Course.

Proceedings of the 2020 Constructionism Conference.

Jacob Wolf, Roy Pea (Advisor), John Willinsky (Program Director). 2019.

Scripting Social Learning: Investigating Students' Perceptions of Social Constructivist Learning in Minerva's Online Learning Environment.

Undergraduate Honors Thesis in the Stanford Graduate School of Education

Amanda Boone, Eileen Rivera, Jacob Wolf. 2018.

Patchwork: An Expressive E-Textile Construction Kit.

ACM Conference on Interaction Design & Children (IDC).