

Michael Warren Skirpan

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PROFESSIONAL ROLES Executive Director, **Community Forge**, Wilkinsburg, PA
Grant and Program Advisor, Pittsburgh Learning Commons

EDUCATION **University of Colorado - Boulder**, Boulder, CO

Ph.D. Computer Science, Completed Fall 2017

- Research Areas: *Data Ethics, Machine Learning, Public Communication, and Ethics Education*
- Advisor: Tom Yeh, Ph.D.

University of Pittsburgh, Pittsburgh, PA

B.Phil., Philosophy (Honors), May 2010

B.S., Economics (minor: Physics), May 2010

RECENT PROFESSIONAL EXPERIENCE University of Wisconsin - Madison AY 2016-17
Software Engineer and Designer of web application for multi-institutional NSF-funded educational research project. EQUIP is an app used by educational researchers and teachers to gather observational data and understand equality and social dynamics in classroom participation.

Quantified Self Immersive Theatre and Interactive Art Production 2016
Writer, Producer, Interaction Designer, and Project Lead on 35 person team for Knight Foundation grant to produce Quantified Self - an immersive and interactive performance about the future and ethics of personal data in our society

Inclusive Design Institute Summer 2016
Google Summer of Code project researching and implementing interactive data dashboard for rapidly creating and sharing accessible data visualizations.

Fast Forward Labs Summer 2015
Graduate Intern researching, implementing, and writing report on the near-future possibilities and ethics around Deep Learning. See the Deep Neural Net Image Classification system we built at <http://www.pictograph.us>

CU-Boulder: Teaching Spring 2014 - Summer 2017
Human-Centered Computing Foundations (instructor)
Democracy in the Digital Era (self-designed and taught course)
User-Centered Design II (co-instructor with Tom Yeh)
HCC: Big Data (co-instructor with Tom Yeh)
Education Psychology and Adolescent Development (instructional staff with Kris Gutierrez)

Logan School for Creative Learning Summer 2014 - 2015

PUBLIC WRITING
AND PRESS

- Denver Post - Authored Article on Data Privacy and Ethics, August 2017
- Pittsburgh Post Gazette - Community Forge Announcement, June 2017
- Vice Motherboard - Quoted for Article on Wikipedia, February 2017
- Daily Camera - Coverage of Quantified Self, April 2016
- KD Nuggets - Authored Article on How Neural Networks Learn, September 2015

OUTREACH

- Case Problem Support, Student Advisor, and Judge - Daniel's Fund Interdisciplinary Ethics Competition at CU Law School November-February 2016-17
- Project Advisor for CU Boulder CS Senior Project Team - Students for Instructional Improvement AY 2015-16
- Boulder Country Day School: Technology Curriculum Development Fall 2014 - Spring 2015
- Alicia Sanchez Elementary School: After-school Program Design and Support Fall 2013 - Spring 2014

HARDWARE AND
SOFTWARE SKILLS

- Programming Languages: Python, JavaScript, C, C++, Bash
- Web Technologies: React, NodeJS, CSS/Sass, jQuery, D3, ProcessingJS
- System Administration: Linux (Debian and Ubuntu), Nginx, Docker
- Hardware: Arduino, ARM/PIC Microcontrollers, Raspberry Pi
- Creative Technologies: Processing, TouchDesigner, OpenFrameworks