

ELDON SCHOOP

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RESEARCH INTERESTS

Human-Computer Interaction, Machine Learning, Interactive Device Prototyping, Augmented Reality

EDUCATION

University of California at Berkeley, Berkeley, CA
Ph.D Student in Computer Science; M.S. Conferred Dec. 2018 2016 – Expected 2021

University of California at Berkeley, Berkeley, CA
B.S. in Electrical Engineering and Computer Science 2013 – 2016

RESEARCH EXPERIENCE

University of California at Berkeley, Berkeley, CA
Graduate Student Researcher with Björn Hartmann Aug 2016 – Present

University of California at Berkeley, Berkeley, CA
Undergraduate Student Researcher with Björn Hartmann Jan 2015 – May 2016

PUBLICATIONS

Eldon Schoop, James Smith, Björn Hartmann. [HindSight: Enhancing Spatial Awareness by Sonifying Detected Objects in Real-Time 360-Degree Video](#). *UC Berkeley EECS Technical Report (Masters Thesis)*. December 2018. 2018

Eldon Schoop, Forrest Huang, Nathan Khuu, Björn Hartmann. [MakerLens: What Sign-In, Reservation and Training Data Can \(and Cannot\) Tell You About Your Makerspace](#). *ISAM 2018*. 2018

Eldon Schoop, James Smith, Björn Hartmann. [HindSight: Enhancing Spatial Awareness by Sonifying Detected Objects in Real-Time 360-Degree Video](#). *CHI 2018*. 2018

Eldon Schoop, Chris Myers, Björn Hartmann. *MakerPass: A Multiplatform Access Control System for Academic Makerspaces*. *ISAM 2017 Posters*. 2017

Michelle Nguyen and **Eldon Schoop**, Mitchell Karchemsky, Valkyrie Savage, Björn Hartmann, Sean Follmer. [Drill Sergeant: Supporting Physical Construction Projects through an Ecosystem of Augmented Tools](#). *Berkeley EECS Technical Report*. 2016

Eldon Schoop and Michelle Nguyen, Daniel Lim, Valkyrie Savage, Sean Follmer, Björn Hartmann. [Drill Sergeant: Supporting Physical Construction Projects through an Ecosystem of Augmented Tools](#). *CHI 2016 Extended Abstracts*. **Best Paper, late-breaking work**. 2016

WORK EXPERIENCE

Jacobs Institute for Design Innovation, Berkeley, CA
Project Lead and Principal Engineer, MakerPass Sep 2014 – Present

Directing the MakerPass engineering team, developed access control system for the Jacobs Institute makerspaces and several other shops at UC Berkeley.

LookDeep Inc., Oakland, CA
Machine Learning Intern May 2019 – Aug 2019

Prototyped and productionized several ML pipelines using state-of-the-art neural networks for vision tasks in healthcare. Developed initial technical demo and internal data visualization tools. Contributed to open source ML.

InnoQuant Inc., Berkeley CA

Co-Founder and Chief Executive Officer

Nov 2016 – Oct 2018

Developed a research-backed innovation assessment. Partnered with consulting firms to drive transformational change in organizations around the globe.

Yelp Inc., San Francisco, CA

Software Engineering Intern (Search UX)

May 2016 – Aug 2016

Project lead for internal data visualization tool to discover, evaluate, and improve user search experiences.

Yelp Inc., San Francisco, CA

Software Engineering Intern (Core Web)

Aug 2015 – Dec 2015

Developed a tool to visualize web code profiling information, presenting line-by-line performance statistics to reduce technical debt.

Zino Systems International, Northridge, CA

Founder and Technical Consultant

Aug 2013 – Aug 2015

Architected and implemented IT solutions for consumers and businesses.

TEACHING

University of California at Berkeley, Berkeley, CA

Graduate Student Instructor, LS 25: Responsible Design from Bits to Buildings

Fall 2019

University of California at Berkeley, Berkeley, CA

Instructor, Design Studio (14 Days, Hardware Prototyping for Transfer Students)

Summer 2019

University of California at Berkeley, Berkeley, CA

Graduate Student Instructor, DES INV 190-2: Global Product Development

Spring 2019

University of California at Berkeley, Berkeley, CA

Instructor, DES INV 190E-1: Interactive Device Design

Summer 2018

University of California at Berkeley, Berkeley, CA

Instructor, Design Studio (10 Days, Hardware Prototyping for Transfer Students)

Summer 2018

University of California at Berkeley, Berkeley, CA

Graduate Student Instructor, CS160: User Interface Design

Spring 2018

University of California at Berkeley, Berkeley, CA

Instructor, T-PREP CS (1 Week, CS Bootcamp for Transfer Students)

Aug 2015

AWARDS AND HONORS

Nominated for Apple Ph.D Fellowship (1 of 5), *UC Berkeley*

2019

Finalist for Snap Research Ph.D Fellowship, *UC Berkeley*

2019

Nominated for Microsoft Ph.D Fellowship (1 of 3), *UC Berkeley*

2018

Innovation by Design Award Finalist, *Fast Company Magazine*

2016

Best Late-Breaking Work Award, *ACM CHI Conference*

2016

Honorable Mention, *NSF Graduate Research Fellowship*

2016

Warren Y. Dere Design Award, *UC Berkeley*

2015

IEEE Eta Kappa Nu (HKN) Honor Society, *Mu Chapter, UC Berkeley*

2014

Leadership Award Scholar, *UC Berkeley*

2013

ADVISING

Purva Gupta, Peng Gu, Sikai Yin, Zetian Xiao, Zhuoyue Wang (CS M.Eng)

Aug 2019 – Present

James Smith (Undergraduate) — Now at UC Berkeley (CS PhD)

Jun 2017 – Aug 2018

PROFESSIONAL ACTIVITIES

Advisory Board, *Canopy Inc.* **Sep 2018 – Sep 2019**
Technical Advisor, *OSAA Medical Device Innovation Collider* **Sep 2016 – Jan 2017**
Reviewer, *CHI 2019 (Outstanding Review Recognition), CHI 2018, MobileHCI 2017*

SERVICE

Co-President, *Berkeley CS Graduate Student Association* **Sep 2019 – Present**
Super User, *CITRIS Invention Lab* **Jan 2015 – Aug 2019**
EECS Department Relations, Industrial Relations, *HKN Mu Chapter* **Sep 2014 – May 2016**
Finance Committee Member, *UC Berkeley Engineering Student Council* **Aug 2014 – Dec 2014**
Co-Founder and President, *LA Pierce College Robotics Team* **Dec 2010 – June 2013**

MEDIA COVERAGE

Vu, Linda. Prepping students to become Berkeley engineers. *Berkeley Engineering*. 2019.
Mukai, Mason. Nisum Doubles Down on Measurable Innovation in Partnership with InnoQuant. *Press Release*. 2018.
Brownlee, John. New To The Wood Shop? These Smart Power Tools Coach You Through It. *Fast Company*. 2016.
Mendoza, Mariecar. Robotics tournament at Pierce College gets kids interested in technology. *LA Daily News*. 2013.