

# Christopher Bender

chrisbender@berkeley.edu    /ChrisBender

## EDUCATION

**UC Berkeley**, May 2021  
Pure Math and CS, Double Major  
GPA: 3.77  
Accel Scholar

## COURSEWORK

Courses in **bold** are graduate-level.

CS 61B	Data Structures
CS 61C	Machine Structures
CS 162	Operating Systems
CS 170	Algorithms
CS 189	Machine Learning
<b>CS 280</b>	Computer Vision
<b>CS 294-112</b>	Deep RL
<b>CS 294-158</b>	Unsupervised Learning
<b>CS 294-162</b>	Systems for ML
EECS 127	Optimization
<b>EECS 219C</b>	Formal Methods
<b>Stat 210A</b>	Theoretical Statistics
Math 136	Incompleteness
Math H104	Honors Real Analysis
Math H110	Honors Linear Algebra
Math H185	Honors Complex Analysis

## SKILLS

Python	Vim	Tmux
PyTorch	AWS	Git
TensorFlow	LaTeX	Unix

## PUBLICATIONS

*Synthetic Datasets for Neural Program Synthesis*, Shin et. al. **ICLR 2019** and **NAMPI Workshop** at ICML 2018.

*Leveraging Unlabeled Data for Watermark Removal of Deep Neural Networks*, Chen et. al. **SPML Workshop** at ICML 2019.

## EXPERIENCE

**Tesla Autopilot** | Perception Internship | Jun 2020 - Aug 2020

- Redesigned the object tracker evaluation, creating new metrics and visualizations to help engineers debug Autopilot.

**Datu** | Machine Learning Internship | Jan 2020 - May 2020

- Seed-stage startup democratizing AI with auto-generated ML pipelines. Founded by Prof. Trevor Darrell and his students.
- Investigated active learning and semi-supervised learning strategies for label-efficient training.

**Nuro** | Machine Learning Internship | May 2019 - Aug 2019

- SoftBank-funded Series B startup building self-driving vehicles for goods delivery.
- Worked as a ML research intern, studying learned video compression for low-latency teleoperation.

**Machine Learning at Berkeley** | President | Jan 2018 - May 2020

- Student organization working on ML industry consulting, research projects, and educational initiatives.
- Former president of ML@B. Previously, co-instructed a 150-person ML course and led ML@B's research arm.

**Stability of GAN Metrics** | Research | Sep 2019 - Present

- Working under Prof. Dawn Song and PhD student Richard Shin on stability and robustness of various GAN metrics.

**Neural Network Watermarking** | Research | Feb 2019 - Sep 2019

- Worked under Profs. Dawn Song and Bo Li on adversarial vulnerabilities of neural network watermarking schemes.
- Published at the 2019 ICML SPML workshop.

**Neural Program Synthesis** | Research | Jan 2018 - May 2019

- Worked under Prof. Dawn Song and PhD student Richard Shin on synthetic dataset generation for robust generalization of neural program synthesis models.
- Published at ICLR 2019 and the 2018 ICML NAMPI workshop.

**Walmart Labs** | Machine Learning Internship | May - Aug 2018

- Worked on information retrieval and semantic metric learning for Walmart's integration with the Google Home.