Kento Nishi

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Education and Affiliations

Harvard University
Harvard College Class of 2026. GPA: 4.0.
2022-present
Cambridge, Massachusetts

Harvard Visual Computing Group
Computer Vision Research Intern
2022-present
Cambridge, Massachusetts

Lynbrook High School
Class of 2022. GPA: 4.0 (Unweighted).
2018-2022
San Jose, California

University of California, Santa Barbara
Visiting Researcher at the UCSB Four Eyes Lab
2020-2022
Santa Barbara, California

San Francisco Japanese School
Saturday school supported by Japanese government. Graduated in 2019.
2011-2019
San Jose, California

Publications & Research

Conference on Computer Vision and Pattern Recognition [IEEE/CVF CVPR]
"Augmentation Strategies for Learning with Noisy Labels"
June 2021
pp. 8022-8031

- **First author of a full-length paper.** Affiliated with the UCSB Research Mentorship Program and Four Eyes Lab.
- Prepared a video and poster. Presented in the **main CVPR conference** in June 2021.
- Cited 47 times as of December 2022.

Association for the Advancement of Artificial Intelligence [AAAI-21]
"Improving Label Noise Robustness with Data Augmentation and Semi-Supervised Learning"
February 2021
pp. 15855-15856

- **First author of a short paper.** Affiliated with the UCSB Research Mentorship Program and Four Eyes Lab.
- Presented a poster in the **AAAI Student Poster session** in February 2021.

Forum on Information Technology Conference (FIT)
Invited speaker for the Top Conference Session at FIT 2022
September 2022

Harvard Science @ Work Capstone Paper
Browser Extension Standards: How Google Monopolized and Exploited the Web Browser Industry
Fall 2022

Awards

Ezoe Memorial Recruit Foundation Scholarship Recipient
One of Japan's most selective scholarship programs for student researchers (roughly 6 recipients per year)
2023

Valedictorian
Lynbrook High School
2022

Regeneron Science Talent Search Top 300 Scholar
"Augmentation Strategies for Learning With Insufficient Data"
2022

Synopsys Science Fair Excellence in Computer Science Award
"Augmentation Strategies for Learning with Noisy Labels"
2021

USA Computing Olympiad Gold Division
USACO 2020 US Open Contest
2020

Coursework

Subject	Course ID	Institution	Date	Grade	Credits
Systems Programming and Machine Organization	COMPSCI 61	Harvard University	Fall 2022	A	4.0
Vector Calculus and Linear Algebra I	MATH 22A	Harvard University	Fall 2022	A	4.0
Science @ Work	HISTSCI 1990	Harvard University	Fall 2022	A	4.0
Expository Writing 20: Privacy and Surveillance	EXPOS 20 250	Harvard University	Fall 2022	A	4.0
Intermediate Calculus	MATH 004A	West Valley College	Spring 2022	A	4.0
Linear Algebra	MATH 004C	West Valley College	Fall 2021	A	4.0
Differential Equations	MATH 004B	West Valley College	Spring 2021	A	4.0
Computer Programming II (C++)	CIST 004B	West Valley College	Fall 2020	A	4.0
Presentation Techniques in Research	INT 93P	UC Santa Barbara	Summer 2020	A	4.0
Introduction to Research Techniques	INT 93R	UC Santa Barbara	Summer 2020	A	4.0
Research in STEM	INT 93LS	UC Santa Barbara	Summer 2019	A	4.0

APs: Calculus BC (5), Chemistry (5), Computer Science A (5), Japanese (5), Language & Composition (4), Literature & Composition (4), Physics C Electricity & Magnetism (5), Physics C Mechanics (5), Statistics (5)
Certificates: Stanford Coursera "Machine Learning" (*2A7SM5AGNJFC*), NVIDIA Deep Learning Institute "Fundamentals of Deep Learning for Computer Vision" (*0f17ae21083b444caf0d60afa0ea8f04*)

Skills

Languages: Japanese (native), English (native)
Programming Languages: Python, JavaScript/TypeScript/HTML/CSS, C++, Java, Rust
Technologies: PyTorch, Svelte, Vue, Git, Docker, ssh, VSCode, SQL, Linux, etc.
GitHub: 1100-day daily commit streak, 17K+ total commits, 130+ pull requests, contributed to 35+ open-source projects
Other: Long-distance running, electronic music composition/production, guitar/ukulele

Projects & Libraries

LiveTL: Co-founder of a browser extension and mobile app for TV-like subtitles for online livestreams. 50K+ total users, 350+ stars on GitHub, and 20+ contributors from 10+ countries.
HyperChat by LiveTL: Founder of a browser extension for improving the YouTube livestream chat experience. Built into LiveTL (50K+ total users), with 13K+ additional non-LiveTL users. 100+ stars on GitHub.
Hololive English 2022 Holiday Advent Calendar: Developed holoen-advent.com in an official collaboration with talent Takanashi Kiara (1.4M+ subscribers) of Hololive English (Cover Corp). Served 50K+ unique viewers in December 2022.
Pogify: Synchronized music playback for online streams. 10+ contributors, 50+ stars on GitHub, 15K+ social media likes.
IFrame Translator: Free JS/TS text translation engine. Used in LiveTL and HyperChat to auto-translate user comments.
Torch Pitch Shift: First pitch-shifting Python library with GPU support (13K+ downloads/month). 70+ stars on GitHub. Developed alongside *torch-audiomentations* (300+ stars on GitHub) with the open source Asteroid developer team.

Extracurricular Activities

Harvard AI Safety Team (HAIST): Participated in the semester-long AI Safety Fellowship Program to learn about the fundamentals of AI safety and interpretability. Will conduct research in the group in the coming semesters.
Harvard Undergraduate Machine Intelligence Community (HUMIC): Joined the HUMIC Theory Board team. Will organize and host introductory presentations in the coming semesters.
Harvard Computer Society (HCS): Participated in several workshops across diverse subfields within CS. Will potentially host workshops in the future.

Leadership Experience

LiveTL: Currently lead an international development team for three open-source extensions (LiveTL, HyperChat, YtcFilter).
San Fransisco Japanese School PTA: Led the development of an all-new library system during COVID (2020-2022).
Lynbrook Computer Science Club: Co-president (2021-2022), Secretary (2020-2021).
Lynbrook Machine Learning Club: Co-president (2021-2022), Secretary (2020-2021).
Lynbrook WebDev Club: Project Coordinator (2021-2022), President (2020-2021), Lead Developer (2019-2020).