Kento Nishi

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Education & Employment [LinkedIn]

Harvard University   2022-present
  Bachelor's and Concurrent Master's degree candidate in Computer Science. Class of 2026. GPA: 3.971.
  Research Intern, Harvard CBS-NTT Physics of AI Group (advised by Dr. H. Tanaka & Dr. E. S. Lubana).
  Research Intern, Harvard Visual Computing Group (advised by Dr. H. Pfister).
  Program Director (Research Compute Lead), Harvard AI Safety Student Team.

Comcast Corp. — Applied Artificial Intelligence Research Labs   2025-present
  PhD/MS-level Research Intern, Speech AI Team.

Lynbrook High School   2018-2022
  Valedictorian. Class of 2022. GPA: 4.0 (Unweighted).

Languages: Bilingual Japanese & English. **Certificates:** NVIDIA Deep Learning Institute "Fundamentals of Deep Learning for Computer Vision," Stanford "Machine Learning." **Skills:** Python, TypeScript/JS, C++, Java; PyTorch, Svelte, OpenGL.

Publications & Research [Google Scholar, 180+ citations]

Representation Shattering in Transformers: A Synthetic Study with Knowledge Editing   Jul. 2025
ICML 2025
  - *Kento Nishi*, R. Ramesh, M. Okawa, M. Khona, H. Tanaka, E. S. Lubana.

In-Context Learning of Representations   Oct. 2024
ICLR 2025
  - C. F. Park, A. Lee, E. S. Lubana, Y. Yang, M. Okawa, *Kento Nishi*, M. Wattenberg, H. Tanaka.

Structured In-Context Task Representations   Oct. 2024
NeurIPS 2024   NeurReps Workshop
  - C. F. Park, A. Lee, E. S. Lubana, *Kento Nishi*, M. Okawa, H. Tanaka.

Joint-Task Regularization for Partially Labeled Multi-Task Learning   Feb. 2024
CVPR 2024
  - *Kento Nishi*, J. Kim, W. Li, H. Pfister.

Towards an Understanding of Stepwise Inference in Transformers: A Synthetic Graph Navigation Model   Feb. 2024
ICML 2024
  - M. Khona, M. Okawa, R. Ramesh, *Kento Nishi*, R. P. Dick, E. S. Lubana, H. Tanaka.

Stepwise Inference in Transformers: Exploring a Synthetic Graph Navigation Task   Dec. 2023
NeurIPS 2023   R0-FoMo Workshop
  - M. Khona, M. Okawa, R. Ramesh, *Kento Nishi*, R. P. Dick, E. S. Lubana, H. Tanaka.

Augmentation Strategies for Learning with Noisy Labels   Jun. 2021
CVPR 2021
  - *Kento Nishi*, Y. Ding, A. Rich, T. Höllerer.

Improving Label Noise Robustness with Data Augmentation and Semi-Supervised Learning   Feb. 2021
AAAI 2021   Student Abstract
  - *Kento Nishi*, Y. Ding, T. Höllerer.

Other Research
  - Research Fellow, 2024 Harvard Program for Research in Science and Engineering (PRISE).
  - Invited Speaker, 2022 Forum on Information Technology (FIT) Conference Top Conference Session.

Awards

Ezoe Memorial Recruit Foundation Scholarship Recipient   2023-2025
  One of Japan's most selective scholarship programs for student researchers (roughly 6 recipients per year).

John Harvard Scholarship   2023
  Top 5% of the Harvard College Class of 2026 in the 2023 Academic Year.

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

Projects & Libraries

LiveTL: Founding developer of a suite of free/open-source apps for improved broadcasting/viewing of online livestreams (LiveTL, HyperChat, YtcFilter). 100K+ total users, 900+ total stars on GitHub, and 20+ contributors from 10+ countries.
Hololive English Christmas Advent Calendar: Developed holoen-advent.com as an officially commissioned project under Hololive English (Cover Corp). Served over 250K+ unique viewers since 2022.
Torch Pitch Shift: First pitch-shifting Python library with GPU support for ML. 500K+ downloads/month. 135+ stars on GitHub. Developed alongside torch-audiomentations (1.1K+ stars on GitHub) with the Asteroid open-source dev team.