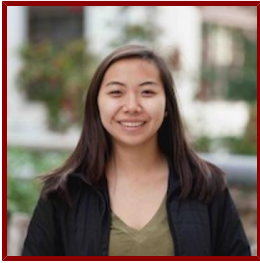


Stanford



Olivia Hsu

Postdoctoral Scholar, Computer Science

Bio

STANFORD ADVISORS

- Oyekunle Olukotun, Postdoctoral Faculty Sponsor

Teaching

COURSES

2022-23

- Compilers: CS 143 (Spr)

Publications

PUBLICATIONS

- **Onyx: A 12-nm Programmable Accelerator for Dense and Sparse Applications** *IEEE JOURNAL OF SOLID-STATE CIRCUITS*
Koul, K., Hsu, O., Mei, Y., Ravipati, S., Strange, M., Melchert, J., Carsello, A., Kong, T., Chen, P., Ke, H., Zhang, K., Liu, Q., Nyengele, et al
2025
- **Designing Programmable Accelerators for Sparse Tensor Algebra** *IEEE MICRO*
Koul, K., Xie, Z., Strange, M., Ravipati, S., Cheng, B., Hsu, O., Chen, P., Horowitz, M., Kjolstad, F., Raina, P.
2025; 45 (3): 58-65
- **Compilation of Modular and General Sparse Workspaces**
Zhang, G., Hsu, O., Kjolstad, F.
ASSOC COMPUTING MACHINERY.2024
- **Mosaic: An Interoperable Compiler for Tensor Algebra** *PROCEEDINGS OF THE ACM ON PROGRAMMING LANGUAGES-PACMPL*
Bansal, M., Hsu, O., Olukotun, K., Kjolstad, F.
2023; 7 (PLDI)
- **Inclusive Study Group Formation At Scale**
Kohli, S., Ramachandran, N., Tudor, A., Tumushabe, G., Hsu, O., Ranade, G., ACM
ASSOC COMPUTING MACHINERY.2023: 11-17
- **BaCO: A Fast and Portable Bayesian Compiler Optimization Framework**
Hellsten, E., Souza, A., Lenfers, J., Lacouture, R., Hsu, O., Ejeh, A., Kjolstad, F., Steuwer, M., Olukotun, K., Nardi, L.
edited by Aamodt, T. M., Jerger, N. E., Swift, M.
ASSOC COMPUTING MACHINERY.2023: 19-42
- **Fully Integrated Electronic-Photonic Ultrasound Receiver Array for Endoscopic Applications in a Zero-Change 45-nm CMOS-SOI Process** *IEEE JOURNAL OF SOLID-STATE CIRCUITS*
Zarkos, P., Buchbinder, S., Adamopoulos, C., Madhvapathy, S., Hsu, O., Whinnery, J., Bhargava, P., Stojanovic, V.

2022

- **Compilation of Sparse Array Programming Models** *PROCEEDINGS OF THE ACM ON PROGRAMMING LANGUAGES-PACMPL*
Henry, R., Hsu, O., Yadav, R., Chou, S., Olukotun, K., Amarasinghe, S., Kjolstad, F.
2021; 5