

Stanford



Kayvon Fatahalian

Associate Professor of Computer Science

Bio

BIO

Kayvon Fatahalian is an Associate Professor in the Computer Science Department at Stanford University. Kayvon's research focuses on the design of systems for real-time graphics, high-efficiency simulation engines for applications in entertainment and AI, and platforms for the analysis of images and videos at scale.

ACADEMIC APPOINTMENTS

- Associate Professor, Computer Science
- Member, Wu Tsai Human Performance Alliance

PROGRAM AFFILIATIONS

- Stanford SystemX Alliance

Teaching

COURSES

2025-26

- Computer Graphics: Rendering, Geometry, and Image Manipulation: CS 248A (Win)
- Parallel Computing: CS 149 (Aut)
- Visual Computing Systems: CS 348K (Spr)

2024-25

- Computer Graphics: Rendering, Geometry, and Image Manipulation: CS 248A (Win)
- Parallel Computing: CS 149 (Aut)
- Visual Computing Systems: CS 348K (Spr)

2023-24

- Computer Graphics: Rendering, Geometry, and Image Manipulation: CS 248A (Win)
- Parallel Computing: CS 149 (Aut)
- Visual Computing Systems: CS 348K (Spr)

2022-23

- Computer Graphics: Rendering, Geometry, and Image Manipulation: CS 248A (Win)
- Parallel Computing: CS 149 (Aut)

- Visual Computing Systems: CS 348K (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Joao Araujo, Sarah Jobalia, Alexander Root

Orals Evaluator

Joao Araujo, Vishnu Sarukkai

Doctoral Dissertation Advisor (AC)

Vishnu Sarukkai

Master's Program Advisor

Grace Ajibola, Henry Ang, Kevin Chan, Lucas Chen, Mai Hoang, Jessica Hu, Jose Medina, Karan Soin, James Varah, YuCheng Yuan

Doctoral (Program)

Tejan Karmali, Zander Majercik, Vishnu Sarukkai, William Wang

Publications

PUBLICATIONS

- **AHA: An Agile Approach to the Design of Coarse-Grained Reconfigurable Accelerators and Compilers** *ACM Transactions on Embedded Computing Systems*
Koul, K., Melchert, J., Sreedhar, K., Truong, L., Nyengele, G., Zhang, K., Liu, Q., Setter, J., Chen, P., Mei, Y., Strange, M., Daly, R., Donovick, et al
2023; 22 (2)