

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

Teaching

COURSES

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)

2021-22

- Computer Graphics: Image Synthesis Techniques: CS 348B (Spr)
- Interactive Computer Graphics: CS 248 (Win)
- Parallel Computing: CS 149 (Aut)
- Visual Computing Systems: CS 348K (Spr)

STANFORD ADVISEES

Master's Program Advisor

Shray Alag, Henry Ang, Cuiyuanxiu Chen, Miguel Fuentes Hernandez, Scott Hickmann, Miranda Liu, Jose Medina, Yash Pansari, Melissa Ran, Karan Soin, Shruti Sridhar, Thanh Tieu, Jared Watrous, Danica Xiong

Doctoral Dissertation Co-Advisor (AC)

Dan Fu

Doctoral (Program)

Purvi Goel, Zander Majercik, Vishnu Sarukkai, Brennan Shacklett

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., Donovanick, et al
2023; 22 (2)