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

2026-27

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

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)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Sarah Jobalia, Alexander Root

Orals Evaluator

Sarah Jobalia

Master's Program Advisor

Grace Ajibola, Henry Ang, Kevin Chan, Lucas Chen, Jessica Hu, Jose Medina, Hadil Owda, James Varah, YuCheng Yuan

Doctoral (Program)

Nicholas Jennings, Tejan Karmali, Zander Majercik, 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
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