

JONATHAN CUI

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La Jolla, CA

EDUCATION

Double-major in Computer Science and Mathematics — 2022–2024
B.S., Penn State University, Senior standing, 4.0 GPA

Computer Science — 2024–2026
B.S., UC San Diego, incoming transfer student

EXPERIENCE

Co-Founder and CTO, TasteMate 6/2024–Current

- TasteMate is an AI-powered recipe app for those with dietary restrictions and medical conditions.
- I contributed over 90% to the code for the Flutter frontend, Django backend, and Next.js website.
- Recently secured its first partnership with Peqish.

Research Intern (Unpaid), Microsoft Research Asia 7/2019–2/2020

- Machine learning research on computer vision and medical applications with two papers published as the second author.
 - One paper is published as a *Spotlight Paper* at ICLR 2021, which I presented to the conference on behalf of the team.
- Responsibilities included virtual environment setup, experimentation and data collection, manuscript revisions and rebuttals, and demo implementation.

PUBLICATIONS

- Zhao, S., **Cui, J.**, Sheng, Y., Dong, Y., Liang, X., Chang, E. I., & Xu, Y. (2021). Large scale image completion via co-modulated generative adversarial networks. *International Conference on Learning Representations*. <https://openreview.net/forum?id=sSjqmfsk95O>.
- Li, Y., **Cui, J.**, Sheng, Y., Liang, X., Wang, J., Eric, I., ... & Xu, Y. (2021). Whole brain segmentation with full volume neural network. *Computerized Medical Imaging and Graphics*, 93, 101991.
- **Cui, J.** & Araujo, D. A. (2024). Rethinking use-restricted open-source licenses for regulating abuse of generative models. *Big Data & Society* 11(1). <https://doi.org/10.1177/20539517241229699>.
- **Cui, J.**, Araujo, D. A., Saha, S., & Kabir, M. F. (2024). CS-Mixer: A cross-scale vision MLP model with spatial-channel mixing. (Recently accepted at IEEE Transactions on Artificial Intelligence)

ONGOING PROJECT & RESEARCH

AAAI 2025 Submission

My latest first-author work on medical image segmentation has been anonymously submitted to AAAI 2025.

Solving Pennes' bioheat equation

I am working with Dr. McHugh at Penn State to solve the second-order PDE using perturbation and other numerical methods.