

Clinton J. Wang

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Summary I design data for post-training LLMs, especially for reasoning and agentic applications. My past research includes computer vision, 3D scene representations, and medical image analysis.

EDUCATION

Ph.D. Massachusetts Institute of Technology Electrical Engineering and Computer Science Thesis: Parameterizations of Neural Fields	2020 – 2024
S.M. Massachusetts Institute of Technology Electrical Engineering and Computer Science, GPA: 5.0/5.0 Thesis: High fidelity medical image-to-image translation	2018 – 2020
B.Sc. Yale University, <i>Magna Cum Laude</i> Biomedical Engineering, GPA: 3.9/4.0	2011 – 2015

EXPERIENCE

Scale AI ML Research Scientist	2024 – present
Google DeepMind Student Researcher, advised by Daniel Duckworth and Peter Hedman	2023 – 2024
Adobe NextCam Research Intern, advised by Jiawen Chen and Cecilia Zhang	2023 summer
Iterative Health Research Intern	2022 summer
MIT Computer Science & Artificial Intelligence Laboratory Research Assistant, advised by Polina Golland	2018 – 2024
Yale Radiology Research Lab Postgraduate Researcher, advised by Jim Duncan	2017 – 2018
PwC Analytics & Technology Consultant	2015 – 2017
Yale School of Engineering & Applied Science Research Assistant, advised by Stuart Campbell	2014 – 2015

JOURNAL & CONFERENCE PAPERS

*equal contribution

- **Learning General-Purpose Biomedical Volume Representations using Randomized Synthesis**
Neel Dey, Benjamin Billot, Hallee Wong, [Clinton Wang](#), Mengwei Ren, P Ellen Grant, Adrian Dalca, Polina Golland
ICLR 2025 [[Paper](#)] [[Project](#)] [[Code](#)]
- **Implicit Representations via Operator Learning**
Sourav Pal, Harshavardhan Adepu, [Clinton Wang](#), Polina Golland, Vikas Singh
ICML 2024 [[Paper](#)] [[Code](#)]
- **Discretization Invariant Networks for Learning Maps between Neural Fields**
[Clinton Wang](#), Polina Golland
Transactions on Machine Learning Research 2023 [[Paper](#)] [[Project](#)] [[Code](#)]

- Shape-aware Segmentation of the Placenta in BOLD Fetal MRI Time Series**
 Mazdak Abulnaga, Neel Dey, Sean Young, Eileen Pan, Katherine Hobgood, [Clinton Wang](#), Ellen Grant, Esra Abaci Turk, Polina Golland
 Journal of Machine Learning for Biomedical Imaging 2023 [[Paper](#)] [[Code](#)]
- Spatial-Intensity Transforms for Medical Image-to-Image Translation**
[Clinton Wang](#), Natalia Rost, and Polina Golland
 IEEE Transactions on Medical Imaging 2023 [[Paper](#)] [[Project](#)] [[Code](#)]
- Pre-Trained Language Models for Interactive Decision-Making**
 Shuang Li, Xavier Puig, Chris Paxton, Yilun Du, [Clinton Wang](#), Linxi Fan, Tao Chen, De-An Huang, Ekin Akyürek, Anima Anandkumar, Jacob Andreas, Igor Mordatch, Antonio Torralba, Yuke Zhu
 NeurIPS 2022 Oral [[Paper](#)] [[Project](#)] [[Code](#)]
- Deep learning–assisted differentiation of pathologically proven atypical and typical hepatocellular carcinoma (HCC) versus non-HCC on contrast-enhanced MRI of the liver**
 Paula Oestmann, [Clinton Wang](#), Lynn J. Savic, Charlie A. Hamm, Sophie Stark, Isabel Schobert, Bernhard Gebauer, Todd Schlachter, MingDe Lin, Jeffrey Weinreb, Ramesh Batra, David Mulligan, Xuchen Zhang, James Duncan, Julius Chapiro
 European Radiology 2021 [[Paper](#)]
- Automated feature quantification of Lipiodol as imaging biomarker to predict therapeutic efficacy of conventional transarterial chemoembolization of liver cancer**
 Sophie Stark, [Clinton Wang](#), Lynn Jeanette Savic, Brian Letzen, Isabel Schobert, Milena Miszczuk, Nikitha Murali, Paula Oestmann, Bernhard Gebauer, MingDe Lin, James Duncan, Todd Schlachter, Julius Chapiro
 Scientific Reports 2020 [[Paper](#)] [[Code](#)]
- Spatial-Intensity Transform GANs for High Fidelity Medical Image-to-Image Translation**
[Clinton Wang](#), Natalia Rost, and Polina Golland
 MICCAI 2020 [[Paper](#)] [[Project](#)] [[Video](#)] [[Code](#)]
- A probabilistic approach for interpretable deep learning in liver cancer diagnosis**
[Clinton Wang](#), Charlie Hamm, Brian Letzen, James Duncan
 SPIE Medical Imaging 2019 Oral [[Paper](#)] [[Project](#)] [[Video](#)] [[Code](#)]
- Deep learning for liver tumor diagnosis part II: interpretable deep learning to characterize tumor features**
[Clinton Wang*](#), Charlie Hamm*, Marc Ferrante, Isabel Schobert, Todd Schlachter, MingDe Lin, Jeffrey Weinreb, James Duncan, Julius Chapiro, Brian Letzen
 European Radiology 2019 [[Paper](#)] [[Project](#)] [[Code](#)]
- Deep learning for liver tumor diagnosis part I: development of a convolutional neural network classifier for multi-phasic MRI**
 Charlie Hamm*, [Clinton Wang*](#), Marc Ferrante, Isabel Schobert, Todd Schlachter, MingDe Lin, James Duncan, Jeffrey Weinreb, Julius Chapiro, Brian Letzen
 European Radiology 2019 [[Paper](#)] [[Code](#)]
- The Role of Artificial Intelligence in Interventional Oncology: A Primer**
 Brian Letzen, [Clinton Wang](#), Julius Chapiro
 Journal of Vascular and Interventional Radiology 2019 [[Paper](#)]
- Slowing of contractile kinetics by myosin-binding protein C can be explained by its cooperative binding to the thin filament**
[Clinton Wang](#), Jonas Schwan, Stuart Campbell
 Journal of Molecular and Cellular Cardiology 2016 [[Paper](#)]

WORKSHOP PAPERS AND PREPRINTS

- **EnigmaEval: A Benchmark of Long Multimodal Reasoning Challenges**

Clinton Wang, Dean Lee, Cristina Menghini, Johannes Mols, Jack Doughty, Adam Khoja, Jayson Lynch, Sean Hendryx, Summer Yue, Dan Hendrycks
2025 [[Paper](#)] [[Project](#)]

- **InterNeRF: Scaling Radiance Fields via Parameter Interpolation**

Clinton Wang, Peter Hedman, Polina Golland, Jonathan T. Barron, Daniel Duckworth
CVPR Neural Rendering Intelligence 2024 [[Paper](#)]

- **Dynamic Neural Fields for Learning Atlases of 4D Fetal MRI Time-series**

Zeen Chi*, Zhongxiao Cong*, Clinton Wang, Yingcheng Liu, Esra Abaci Turk, Ellen Grant, Mazdak Abulnaga, Neel Dey, Polina Golland
Medical Imaging Meets NeurIPS Workshop 2023 [[Paper](#)] [[Code](#)]

- **Interpolating between Images with Diffusion Models**

Clinton Wang, Polina Golland
ICML Workshop on Deployment Challenges for Generative AI 2023 [[Paper](#)] [[Project](#)] [[Code](#)]

- **Approximate Discretization Invariance for Deep Learning on Neural Fields**

Clinton Wang, Polina Golland
ICLR Workshop on Neural Fields 2023
[New England Computer Vision Workshop 2022 Oral](#)
NeurIPS Symmetry and Geometry in Neural Representations 2022 [[Paper](#)] [[Video](#)] [[Code](#)]

- **Geometry Aware Field-to-field Transformations for 3D Semantic Segmentation**

Dominik Hollidt, Clinton Wang, Polina Golland, Marc Pollefeys
2023 [[Paper](#)] [[Project](#)] [[Code](#)]

- **High Fidelity Medical Image-to-Image Translation with Spatial-Intensity Transforms**

Clinton Wang, Natalia Rost, Polina Golland
MIT MGB AI Cures Conference 2022 [[Project](#)] [[Code](#)]

- **Automatic Segmentation of the Placenta in BOLD MRI Time Series**

Mazdak Abulnaga, Sean Young, Katherine Hobgood, Eileen Pan, Clinton Wang, Ellen Grant, Esra Abaci Turk, Polina Golland
MICCAI Preterm, Perinatal and Paediatric Image Analysis Workshop 2022 [[Paper](#)] [[Code](#)]

SELECTED HONORS AND AWARDS

- | | |
|---|-------------|
| • Takeda Fellowship | 2021 – 2022 |
| • Siebel Foundation Scholar | 2020 |
| • Yale Department of Biomedical Engineering Prize | 2015 |
| • Tau Beta Pi Engineering Honor Society | 2015 |
| • International Biology Olympiad, silver medalist | 2009 |

TEACHING

Courses

- | | |
|--|------|
| • Teaching Assistant, 6.8300 Advances in Computer Vision, MIT | 2024 |
| • Guest Presenter, 6.4400 Intro to Computer Graphics, MIT | 2022 |
| • Teaching Assistant, 6.819/6.869 Advances in Computer Vision, MIT | 2021 |

Invited Talks

- University of Wisconsin-Madison (Host: Vikas Singh) 2023
Neural Fields for Representing 3D Data
- Google Brain, Toronto (Hosts: Andrea Tagliasacchi and Kevin Swersky) 2022
Deep Learning on Neural Fields
- Boston Medical Imaging Workshop 2022
Robust counterfactual image generation with spatial-intensity transforms
- MIT-Takeda Presentation Series 2022
Identifying radiological biomarkers with generative models

SERVICE

Academic Service

- Program Committee, Medical Imaging Meets NeurIPS Workshop (MedNeurIPS)
- Reviewer
 - International Conference on Learning Representations (ICLR)
 - Conference on Neural Information Processing Systems (NeurIPS)
 - International Conference on Machine Learning (ICML)
 - Medical Image Analysis (MedIA)
 - Information Processing in Medical Imaging (IPMI)
 - Medical Image Computing and Computer Assisted Intervention (MICCAI)
 - Machine Learning for Health (ML4H)
 - Medical Imaging Meets NeurIPS Workshop (MedNeurIPS)
 - NeurIPS Workshop on Symmetry and Geometry in Neural Representations (NeurReps)
 - CVPR Workshop on AI for Content Creation (AI4CC)

Community Service

- EECS PhD Admissions Reviewer, MIT 2022
- Graduate Student Advisory Group for Engineering (GradSAGE), MIT 2019 – 2021
Advised the Dean of the School of Engineering on policies and initiatives for graduate students. Developed and organized leadership workshops, a leadership minor, and a leadership certificate program.
- Controller, Sidney-Pacific Graduate Residence 2019 – 2021
Managed internal budgeting, reimbursements, accounting, and financial reporting for MIT's largest graduate dormitory (749 students).