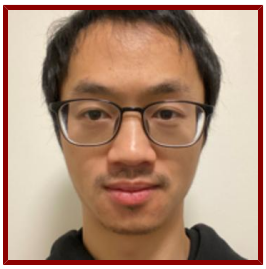
Stanford



Wei Peng

Postdoctoral Scholar, Psychiatry

Bio

BIO

I am a Postdoctoral Researcher at CNSlab, advised by Professor Kilian. I received my PhD from University of Oulu , Finland, where I was advised by Academy Professor Guoying Zhao. During my PhD study, I was lucky enough to have the opportunity to visit Harvard Medical School and CVL, ETH Zurich. Prior to that, I received the B.E. degree from UESTC, China, and Master degree from Xiamen University, China. My research interests include Machine Learning, Geometric neural networks, Medical image analysis with special emphasis on Neuroscience.

HONORS AND AWARDS

- Finnish AI Dissertation Award 2022, Finnish AI Society (2023)
- ISMRM Magna Cum Laude Merit Award, ISMRM (2022)
- Excellent for my doctoral thesis defense, University of Oulu (2022)
- Best conference paper award (Finland Section), IEEE (2020)
- The 2nd Place on light-weight Action Recognition, ECCV (2020)

STANFORD ADVISORS

- Kilian Pohl, Postdoctoral Faculty Sponsor

LINKS

- Homepage: https://xiaoiker.github.io/
- Google Scholar: https://scholar.google.com/citations?user=TDFM0QYAAAAJ&hl=en

Publications

PUBLICATIONS

- **Generating Realistic Brain MRIs via a Conditional Diffusion Probabilistic Model.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*
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- **TOPLight: Lightweight Neural Networks with Task-Oriented Pretraining for Visible-Infrared Recognition**
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- **Hyperbolic Deep Neural Networks: A Survey.** *IEEE transactions on pattern analysis and machine intelligence*
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- **Learning Optimal K-space Acquisition and Reconstruction using Physics-Informed Neural Networks**
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- **Tripool: Graph triplet pooling for 3D skeleton-based action recognition** *PATTERN RECOGNITION*
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- **Revealing the Invisible with Model and Data Shrinking for Composite-database Micro-expression Recognition.** *IEEE transactions on image processing : a publication of the IEEE Signal Processing Society*
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- **Learning Graph Convolutional Network for Skeleton-Based Human Action Recognition by Neural Searching**
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- **Mix Dimension in Poincare Geometry for 3D Skeleton-based Action Recognition**
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- **Remote Heart Rate Measurement from Highly Compressed Facial Videos: an End-to-end Deep Learning Solution with Video Enhancement**
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- **LSOR: Longitudinally-Consistent Self-Organized Representation Learning.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*
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- **Efficient Hyperbolic Perceptron for Image Classification** *ELECTRONICS*
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- **Hyperbolic Uncertainty Aware Semantic Segmentation** *IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS*
  Chen, B., Peng, W., Cao, X., Roning, J.
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- **Imputing Brain Measurements Across Data Sets via Graph Neural Networks.** *PRedictive Intelligence in MEdicine. PRIME (Workshop)*
  Wang, Y., Peng, W., Tapert, S. F., Zhao, Q., Pohl, K. M.
  2023; 14277: 172-183