

# Wei Lin (Mr.)

Updated September 19, 2025

**Email:** wlin2021at@gmail.com

**HomePage:** [link](#)

**GitHub:** [link](#)

**Google Scholar:** [link](#)

## Research interests

Vision-language models, multimodal large language models, multimodal learning, domain adaptation, video understanding

## Work Experience

Postdoc at the Institute for Machine Learning Linz, Austria  
(headed by Prof. Sepp Hochreiter, Father of LSTM) Oct 2023 – current  
Johannes Kepler University

Research Assistant Graz, Austria  
Institute of Computer Graphics and Vision Jan 2019 – Sep 2023  
Graz University of Technology

## Education

**Graz University of Technology** Graz, Austria  
PhD (Dr.techn) in Computer Science Jan 2019 – Mar 2024  
Mentors:  
Prof. Horst Bischof (Graz University of Technology)  
Prof. Hilde Kuehne (University of Tuebingen, MIT-IBM Watson AI lab)

**Technical University of Munich** Munich, Germany  
M.Sc. in Electrical and Computer Engineering Oct 2015 - Dec 2018  
Mentor: Prof. Eckehard Steinbach

## Organization

**Program Chair** of the 2nd, 3rd and 4th Workshop on "What is Next in Multimodal Foundation Models" on CVPR 2024, 2025 and ICCV 2025, **Challenge Chair** for the MMFM-Challenge of Multimodal Models on Document Understanding on CVPR 2024

## Publications

**pLSTM: parallelizable Linear Source Transition Mark networks**

Korbinian Pöppel, Richard Freinschlag, Thomas Schmied, Wei Lin, Sepp Hochreiter  
*NeurIPS 2025*

**STSBench: A Spatio-temporal Scenario Benchmark for Multi-modal Large Language Models in Autonomous Driving**

Christian Fruhwirth-Reisinger, Dušan Malić, Wei Lin, David Schinagl, Samuel Schuler, Horst Possegger  
*NeurIPS 2025 Datasets & Benchmarks Track*

**Teaching VLMs to Localize Specific Objects from In-context Examples**

Sivan Doveh, Nimrod Shabtay, Wei Lin, Eli Schwartz, Hilde Kuehne, Raja Giryes, Rogerio Feris, Leonid Karlinsky, James Glass, Assaf Arbelle, Shimon Ullman, Muhammad Jehanzeb Mirza

*ICCV 2025*

**PerLA: Perceptive 3D Language Assistant**

Guofeng Mei, Wei Lin, Luigi Riz, Yujiao Wu, Fabio Poiesi, Yiming Wang

*CVPR 2025*

**LiveXiv-A Multi-Modal Live Benchmark Based on Arxiv Papers Content**

Nimrod Shabtay, Felipe Maia Polo, Sivan Doveh, Wei Lin, Muhammad Jehanzeb Mirza, Leshem Choshen, Mikhail Yurochkin, Yuekai Sun, Assaf Arbelle, Leonid Karlinsky, Raja Giryes

*ICLR 2025*

**GLOV: Guided Large Language Models as Implicit Optimizers for Vision Language Models**

Muhammad Jehanzeb Mirza, Mengjie Zhao, Zhuoyuan Mao, Sivan Doveh, Wei Lin, Paul Gavrikov, Michael Dorkenwald, Shiqi Yang, Saurav Jha, Hiromi Wakaki, Yuki Mitsufuji, Horst Possegger Rogerio Feris, Leonid Karlinsky, James Glass

*Arxiv 2024*

**Comparison Visual Instruction Tuning**

Wei Lin, Muhammad Jehanzeb Mirza, Sivan Doveh, Rogerio Feris, Raja Giryes, Sepp Hochreiter, Leonid Karlinsky

In collaboration with the MIT-IBM Watson AI Lab

*Arxiv 2024*

**Conme: Rethinking Evaluation of Compositional Reasoning for Modern VLMs**

\*Irene Huang, \*Wei Lin, \*Muhammad Jehanzeb Mirza, Jacob Hansen, Sivan Doveh, Victor Ion Butoi, Roei Herzig, Assaf Arbelle, Hilde Kuehne, Trevor Darrell, Chuang Gan, Aude Oliva, Rogerio Feris, Leonid Karlinsky (\*equal contribution)

In collaboration with the MIT-IBM Watson AI Lab

*Conference on Neural Information Processing Systems (NeurIPS) 2024*

**Meta-Prompting for Automating Zero-shot Visual Recognition with LLMs**

Muhammad Jehanzeb Mirza, Leonid Karlinsky, Wei Lin, Sivan Doveh, Jakub Micorek, Mateusz Kozinski, Hilde Kuehne, Horst Possegger

In collaboration with the MIT-IBM Watson AI Lab  
*European Conference on Computer Vision (ECCV) 2024*

**Towards multimodal in-context learning for vision & language models**

Sivan Doveh, Shaked Perek, Muhammad Jehanzeb Mirza, Wei Lin, Amit Alfassy, Assaf Arbelle, Shimon Ullman, Leonid Karlinsky

In collaboration with the MIT-IBM Watson AI Lab  
*Arxiv 2024*

**Vision-Language Guidance for LiDAR-based Unsupervised 3D Object Detection**

Christian Fruhwirth-Reisinger, Wei Lin, Dusan Malic, Horst Bischof, Horst Possegger

*British Machine Vision Conference (BMVC) 2024 Oral & Best Poster Award*

**Overlooked Aspects in the Evaluation of Out-Of-Distribution Detection Methods**

\*Bernhard Lehner, \*Christian Huber, Bernhard Moser, Claus Hofmann, Wei Lin, Sepp Hochreiter (\*equal contribution)

*Arxiv 2024*

**MATch, eXpand and Improve: Unsupervised Finetuning for Zero-Shot Action Recognition with Language Knowledge**

Wei Lin, Leonid Karlinsky, Nina Shvetsova, Horst Possegger, Mateusz Kozinski, Rameswar Panda, Rogerio Feris, Hilde Kuehne, Horst Bischof

In collaboration with the MIT-IBM Watson AI Lab  
*International Conference on Computer Vision (ICCV) 2023*

**LaFTer: Label-Free Tuning of Zero-shot Classifier using Language and Unlabeled Image Collections**

Muhammad Jehanzeb Mirza, Leonid Karlinsky, Wei Lin, Mateusz Kozinski, Horst Possegger, Rogerio Feris, Horst Bischof

*Conference on Neural Information Processing Systems (NeurIPS) 2023*

**MATE: Masked Autoencoders are Online 3D Test-Time Learners**

\*Muhammad Jehanzeb Mirza, \*Inkyu Shin, \*Wei Lin, Andreas Schriebl, Kunyang Sun, Jaesung Choe, Horst Possegger, Mateusz Kozinski, In So Kweon, Kun-Jin Yoon, Horst Bischof (\*equal contribution)

*International Conference on Computer Vision (ICCV) 2023*

**TAP: Targeted Prompting for Task Adaptive Generation of Textual Training Instances for Visual Classification**

Muhammad Jehanzeb Mirza, Leonid Karlinsky, Wei Lin, Horst Possegger, Rogerio Feris, Horst Bischof

*Arxiv 2023*

**Video Test-Time Adaptation for Action Recognition**

\*Wei Lin, \*Muhammad Jehanzeb Mirza, Mateusz Kozinski, Horst Possegger, Hilde Kuehne, Horst Bischof (\*equal contribution)

*Conference on Computer Vision and Pattern Recognition (CVPR) 2023*

**ActMAD: Activation Matching to Align Distributions for Test-Time-Training**

Muhammad Jehanzeb Mirza, Pol Jané Soneira, Wei Lin, Mateusz Kozinski, Horst Possegger, Horst Bischof

*Conference on Computer Vision and Pattern Recognition (CVPR) 2023*

**CycDA: Unsupervised Cycle Domain Adaptation to Learn from Image to Video**

Wei Lin, Anna Kukleva, Kunyang Sun, Horst Possegger, Hilde Kuehne, Horst Bischof

*European Conference on Computer Vision (ECCV) 2022*

**Extended Abstract CycDA: Unsupervised Cycle Domain Adaptation to Learn from Image to Video**

Wei Lin, Anna Kukleva, Kunyang Sun, Horst Possegger, Hilde Kuehne, Horst Bischof

*ECCV 2022 Workshop of Out Of Distribution Generalization in Computer Vision, 2022*

**Unsupervised Class-aware 3D Object Detection in LiDAR Point Clouds**

Christian Fruhwirth-Reisinger, Wei Lin, Dusan Malic, David Schinagl, Georg Krispel, Horst Possegger, Horst Bischof

*Arxiv 2023*

**AIR-DA: Adversarial Image Reconstruction for Unsupervised Domain Adaptive Object Detection**

Kunyang Sun, Wei Lin, Haoqin Shi, Zhengming Zhang, Yongming Huang, Horst Bischof

*IEEE Robotics and Automation Letters (RA-L) 2023*

**TAEC: Unsupervised Action Segmentation with Temporal-Aware Embedding and Clustering**

Wei Lin, Anna Kukleva, Horst Possegger, Hilde Kuehne, Horst Bischof

*Computer Vision Winter Workshop 2023*

**Sit Back and Relax: Learning to Drive Incrementally in All Weather Conditions**

Stefan Leitner, Muhammad Jehanzeb Mirza, Wei Lin, Jakub Microrek, Marc Masana, Mateusz Kozinski, Horst Possegger, Horst Bischof  
*Intelligent Vehicle Symposium, 2023*

#### Review service

##### Conference

ECCV 2022, ISMAR 2023, CVPR 2023, NeurIPS 2023, WACV 2024, CVPR 2024, ECCV 2024, NeurIPS 2024, NeurIPS 2024 Dataset and Benchmark Track, CVPR 2025

##### Journal

TPAMI 2023, TNNLS 2023, IEEE Trans. Multimedia 2023, Pattern Recognition Letters 2024

#### Activity

International Computer Vision Summer School 2023

#### Teaching

Deep Learning and Neural Networks I Exercise, Deep Learning and Neural Networks II Exercise, Machine Learning: Supervised Techniques Exercise, Machine Learning: Unsupervised Techniques Exercise

#### Honors and scholarships

Scholarship for Foreign Students (Technical University of Munich)	06.2016
Scholarship for Foreign Students (Technical University of Munich)	06.2017

#### Industry experience

<b>Robert Bosch GmbH</b> , Corporate Research	Hildesheim, Germany
Research Internship	Oct 2017 - May 2018
Master's Thesis : 3D Human Pose-based Action Recognition	

<b>Robert Bosch GmbH</b> , Corporate Research	Leonberg, Germany
Research Internship	Feb 2017 - Jul 2017
Project: Road surface estimation from monocular video data based on P-Spline regression and 3D reconstruction	

#### Skills

##### Programming

Proficient in: Python, C++

##### Languages

English, German, Chinese