

# ZHENGXUAN WEI

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## EDUCATION

### ShanghaiTech University

B.Eng. Candidate, Computer Science and Technology

GPA: 3.88/4.0 (Rank: 2/162) | CET 4: 580 | CET 6: 537

Shanghai, China

Sep.2022 - Present

## PUBLICATIONS

(\* indicates equal contribution)

- **Augmenting Moment Retrieval: Zero-Dependency Two-Stage Learning**

Zhengxuan Wei\*, Jiajin Tang\*, Sibeï Yang†

Accepted by International Conference on Computer Vision (ICCV) 2025

We proposes AMR, which enhances moment retrieval by introducing Splice-and-Boost data augmentation and dual-path distillation, significantly improving boundary localization and semantic discrimination without relying on external data.

- **Closed-Loop Transfer for Weakly-supervised Affordance Grounding**

Jiajin Tang\*, Zhengxuan Wei\*, Ge Zheng, Sibeï Yang†

Accepted by International Conference on Computer Vision (ICCV) 2025

We proposes Loop-Trans, a closed-loop framework that bidirectionally transfers and refines affordance knowledge between exocentric and egocentric images via unified cross-modal localization and denoising distillation.

- **Sim-DETR: Unlock DETR for Temporal Sentence Grounding**

Jiajin Tang\*, Zhengxuan Wei\*, Yuchen Zhu, Cheng Shi, Guanbin Li, Liang Lin, Sibeï Yang†

Accepted by International Conference on Computer Vision (ICCV) 2025

We proposes Sim-DETR, which resolves DETR's query conflicts in temporal sentence grounding via self-attention adjustments and query-frame alignment, unlocking superior performance and faster convergence.

- **Rethinking Query-based Transformer for Continual Image Segmentation**

Yuchen Zhu\*, Cheng Shi\*, Dingyou Wang, Jiajin Tang, Zhengxuan Wei, Yu Wu, Guanbin Li, Sibeï Yang†

Accepted by IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2025 [\[code\]](#)

We proposes a query-based transformer framework for continual image segmentation that enhances plasticity and reduces catastrophic forgetting via lazy query pre-alignment, consistent selection loss, and virtual query replay.

## PROJECTS

- **Preserving Intra-Modal Consistency in Externally Guided Image Clustering** [\[code\]](#)

We proposes a novel framework integrating external semantic guidance with internal feature consistency through Representation and Classification Consistency Learning to preserve intra-modal similarity and enhance image clustering performance.

- **Evaluation and Fine-Tuning of LLMs for Optimization Problem Transformation** [\[code\]](#)

We evaluates the performance of large language models (LLMs) on transforming natural language linear programming problems into mathematical formulations, and demonstrates significant accuracy improvements through task-specific fine-tuning.

- **Deep Learning For 3D Kidney Vessel Segmentation** [\[code\]](#)

We proposes a 2.5D deep learning approach using Swin Transformers and three-axis inference with edge pixel dropping to enhance 3D kidney vessel segmentation by effectively leveraging spatial context and multi-perspective integration.

## AWARDS AND ACTIVITIES

- ShanghaiTech Outstanding Student

Dec. 2024

- The Second Prize of the 15th Chinese Mathematics Competitions

Dec. 2023

- Teaching Assistant for Artificial Intelligence

Feb. 2025 - Present

## MAIN COURSES

Artificial Intelligence (A+)

Convex Optimization (A+)

Signals and Systems (A+)

Algorithms and Data Structures (A)

Machine Learning (A+)

Information Theory (A+)

Calculus (A+)

Linear Algebra (A)

Numerical Optimization (A+)

Computer Architecture (A+)

Introduction to Programming (A)

Probability and Statistics (A)