

Yan Xie

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EDUCATION

Xidian University

Ph.D. in Information and Telecommunication Engineering

Advisor : **Prof. Bo Chen**

Xi'an, China

Sept. 2022 - present

Xidian University

Bachelor in Electronic Engineering

Xi'an, China

Sept. 2018 - Jul. 2022

PUBLICATION(* EQUAL CONTRIBUTION)

4. On the Position Bias of On-Policy Distillation

Key Words: *On-Policy Distillation, Reinforcement Learning*

TL;DR: IW-OPD corrects position bias by reweighting supervision with the prefix likelihood ratio.

Yan Xie, Sijie Zhu, Tiansheng Wen, Bo Chen, Yifei Wang

NeurIPS 2026 (Under Review)

3. Scaling Attention via Feature Sparsity

Key Words: *Attention Mechanism, Sparse Representation*

TL;DR: SFA exploits feature sparsity to accelerate attention while preserving dense-model quality.

Yan Xie*, Tiansheng Wen*, Bo Chen, Chenyu You, Stefanie Jegelka, Yifei Wang

ICLR 2026

2. Discovering Fine-Grained Visual-Concept Relations by Disentangled Optimal Transport Concept Bottleneck Models

Key Words: *Sparse Representation, Optimal Transport*

TL;DR: DOT-CBM learns sparse visual-concept alignments with disentangled optimal transport.

Yan Xie, Zequn Zeng, Hao Zhang, Yucheng Ding, Yi Wang, Zhengjue Wang, Bo Chen, Hongwei Liu

CVPR 2025

1. MeaCap: Memory-Augmented Zero-Shot Image Captioning

Key Words: *Memory Sparsification, Zero-Shot Image Captioning*

TL;DR: MeaCap sparsifies textual memory into image-relevant concepts for zero-shot captioning.

Zequn Zeng*, **Yan Xie***, Hao Zhang, Chiyu Chen, Bo Chen, Zhengjue Wang

CVPR 2024

INDUSTRY EXPERIENCE

Tencent

Tencent Project Up Intern

Yuanbao Team - AI Infra

- Developed **model-sparsification** methods to improve inference efficiency for Yuanbao AI infrastructure.
- Deployed **Sparse Feature Attention (SFA)** in production workflows.

ByteDance

LLM Research Intern

BandAI

- Built **sub-scenario evaluation suites** and **data-synthesis pipelines** for e-commerce agents.
- Deployed and optimized **Agentic OPD** for post-training.
- Mitigated **stale-sample issues** in fully asynchronous agentic RL.