XUN WANG

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Scholar: https://scholar.google.com/citations?user=-N8Y3GEAAAAJ

Education

M.S. in Probability and Mathematical Statistics *Sept. 2015 - June 2018*
Sun Yat-Sen University
B.S. in Mathematics and Applied Mathematics *Sept. 2009 - July 2013*
Beijing Normal University

Experience

Research Scientist at ByteDance Ltd. *July 2022 - present*
Seed Foundation: Designed the best distributed data loader in the Seed Team. Bit-wise Resume with extremely efficient ckpt. The corest contributer for code bases of multimodal understanding and generation.
Seed Research: Project Lead for Natural Language/Vision control for image generation / editing.
Research Engineer at Malong Tech *July 2018 - July 2020*
Research: Designed Multi-Similarity Loss (CVPR 2019) and cross-band memory (CVPR 2020) for deep-metric learning and image retrieval.

Selected Publications

Xun Wang (as a core contributor) "Seedream 2.0: A Native Chinese-English Bilingual Image Genreation Foundation Model," Seed Tech Report, 2025. [SoTA Image Generation].

Xun Wang, H. Zhang, W. Huang, M. R. Scott "Cross-Batch Memory for Embedding Learning," In CVPR, 2020. [Code] [Oral & Best Paper Nomination].

Xun Wang, X. Han, W. Huang, D. Dong and M. R. Scott, "Multi-Similarity Loss with General Pair Weighting for Deep Metric Learning," In CVPR, 2019. [**1000 citations**] [Code].

Research Interests

Multimodal Understanding   Published one paper.
Deep Metric Learning   Published several papers.
Self-supervised Representation Learning   co-author of one paper.

Honors and Awards

Cycling 1300KM individually with 300$ when 18 years old *2010*
Best Paper Nomination in CVPR 2020 *2020*

Skills

Mathematical Tools: *Linear Algebra, Calculus, Probability and Statistics*