

JUN CHEN

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WORK EXPERIENCE

Research Scientist at **Meta AI**

Feb 2025-Now

EDUCATION

King Abdullah University of Science and Technology

Dec 2023-Feb 2025

PostDoc Researcher

King Abdullah University of Science and Technology

Aug 2018 - Dec 2023

MS/PhD (Advised by Mohamed Elhoseiny)

Liverpool University

Aug 2014 - Jun 2018

BSc in Computer Science

First Class Degree

SELECTED PUBLICATIONS

- **Jun Chen**, Dannong xu, junjie fei, chun-mei feng, Mohamed Elhoseiny. Document Haystacks: Vision-Language Reasoning Over Piles of 1000+ Documents [**CVPR 2025**]
- Zhongyu Yang*, **Jun Chen***, Dannong Xu, Junjie Fei, Xiaoqian Shen, Liangbing Zhao, Chun-Mei Feng, Mohamed Elhoseiny. WikiAutoGen: Towards Multi-Modal Wikipedia-Style Article Generation. [**ICCV 2025**]
- Deyao Zhu*, **Jun Chen***, Xiaoqian Shen, Xiang Li and Mohamed Elhoseiny. MiniGPT-4: Enhancing Vision-Language Understanding with Advanced Large Language Models [**ICLR 2024**]
*Equal Contribution (**github 25k stars and ≥3,000 citations**)
- Xiaoqian Shen, Yunyang Xiong, Changsheng Zhao, Lemeng Wu, **Jun Chen**, et al. LongVU: Spatiotemporal Adaptive Compression for Long Video-Language Understanding [**ICML 2025**]
- Sanjoy Chowdhury, Sayan Nag, Subhrajyoti Dasgupta, **Jun Chen**, Mohamed Elhoseiny, Ruohan Gao, Dinesh Manocha. Meerkat: Audio-Visual Large Language Model for Grounding in Space and Time [**ECCV 2024**]
- Asma Alkhaldi, Raneem Alnajim, Layan Alabdullatef, Rawan Alyahya, **Jun Chen**, Deyao Zhu, Ahmed Alsinan, Mohamed Elhoseiny. Minigpt-med: Large language model as a general interface for radiology diagnosis [**Under Review 2024**]
- **Jun Chen**, Deyao Zhu, XiaoQian Shen, Xiang Li, Zechun Liu, Pengchuan Zhang, Raghuraman Krishnamoorthi, Viksa Chandra, Yunyang Xiong, Mohamed Elhoseiny. MiniGPT-v2: Large Language Model as a Unified Interface for Vision-Language Multi-task Learning.
- Deyao Zhu, **Jun Chen**, Kilichbek Haydarov, Xiaoqian Shen, Wenxuan Zhang, Mohamed Elhoseiny. ChatGPT Asks, BLIP-2 Answers: Automatic Questioning Towards Enriched Visual Descriptions. [**TMLR**]
- **Jun Chen**, Deyao Zhu, Guocheng Qian, Bernard Ghanem, Zhicheng Yan, Chenchen Zhu, Fanyi Xiao, Mohamed Elhoseiny, Sean Chang Culatana. Exploring Open-Vocabulary Semantic Segmentation without Human Labels [**ICCV 2023**]
- **Jun Chen**, Ming Hu, Boyang Li, and Mohamed Elhoseiny. Efficient Self-supervised Vision Pre-training with Local Masked Reconstruction. [**WACV 2025**]
- **Jun Chen**, Ming Hu, Darren Coker, Michael, Berumen, Blair Costelloe, Sara Beery, Anna Rohrbach and Mohamed Elhoseiny. MammalNet: A Large-scale Video Benchmark for Mammal Recognition and Behavior Understanding. [**CVPR 2023**]

- **Jun Chen**, Aniket Agarwal, Deyao Zhu, Mohamed Elhoseiny. RelTransformer: A Transformer-Based Long-Tail Visual Relationship Recognition. [**CVPR 2022**]
- **Jun Chen**, Han Guo, Kai Yi, Boyang Li, and Mohamed Elhoseiny. VisualGPT: Data-efficient image captioning by balancing visual input and linguistic knowledge from pretraining. [**CVPR 2022**]
- Ahmed Abdelreheem, Ujjwal Upadhyay, Ivan Skorokhodov, Rawan Al Yahya, **Jun Chen**, Mohamed Elhoseiny. 3DRefTransformer: Fine-Grained Object Identification in Real-World Scenes Using Natural Language. [**WACV 2022**]
- Sherif Abdelkarim, Aniket Agarwal, Panos Achlioptas, **Jun Chen**, Jiaji Huang, Boyang Li, Kenneth Church, and Mohamed Elhoseiny. Long tail visual relationship recognition with hubless regularized relmix [**ICCV 2021**]
- Wang Liu-Wei, Senay Kafkas, **Jun Chen**, Nicholas J Dimonaco, Jesper Tegner, and Robert Hoehndorf. Deepviral :prediction of novel virushost interactions from protein sequences and infectious disease phenotypes. [**Bioinformatics 2021**].
- **Jun Chen**, Azza Althagafi, and Robert Hoehndorf. Predicting candidate genes from phenotypes, functions, and anatomical site of expression. [**Bioinformatics 2020**].
- Uchenna Akujuobi, **Jun Chen**, Mohamed Elhoseiny, Michael Spranger, and Xiangliang Zhang. Temporal positive-unlabeled learning for biomedical hypothesis generation via risk estimation. [**NeurIPS 2020**].

EXPERIENCE

Research Scientist Intern in **Meta** Core AI team (July-December 2023). Sunnyvale, California, USA. (The main work that I have done during this intern is to train a vision-language chatbot model, that allows the users to communicate with the model through image and also natural language)

Research Scientist Intern in **Meta** AI for RL team (August-December 2022). Menlo Park, California, USA. (The main work that I have done during this intern is to design an model that can learn the open-vocabulary semantic segmentation without relying any pixel-level supervision annotation)

Research Internship in **University of Birmingham** (June-August 2019). Birmingham UK.

TEACHING

RA in CS326 (Low-resource Deep Learning at KAUST)

RA in CS294D (Contemporary Topics in Machine Learning at KAUST)

ACADEMIC RESEARCH RESPONSIBILITY

Reviewer Volunteering in CVPR, ECCV, ICCV, NeurIPS, AAAI, T-PAMI, IEEE MultiMedia.

AWARD

Dean's List Award 2023 (King Abdullah University of Science and Technology)

Dean's List Award 2022 (King Abdullah University of Science and Technology)

Full PhD Scholarship Award 2018 (King Abdullah University of Science and Technology)

MEDIA

MiniGPT-4 covered by

- **The sequence:** <https://thesquence.substack.com/p/the-sequence-chat-deyao-zhu-and-ju>

- **Fast Company:** <https://fastcompanyme.com/technology/the-risk-of-generative-ai-transforming-the-creative-work-in-the-middle-east/>
- **KD-nuggets:** <https://www.kdnuggets.com/2023/04/minigpt4-lightweight-alternative-gpt4-enhanced-visionlanguage-understanding.html>
- **Marktechpost:** <https://www.marktechpost.com/2023/07/10/meet-minigpt-4-an-open-source-ai-model-that-performs-complex-vision-language-tasks-like-gpt-4/>

MiniGPT-Med covered by

- **ArabNews:** <https://www.arabnews.com/node/2568476/saudi-arabia>
- <https://english.aawsat.com/technology/5044087-sdaia-kaust-launch-minigpt-med-model-help-doctors-diagnose-medical-radiology>
- **ArabNews:** <https://www.arabnews.com/node/2557951/saudi-arabia>

MammalNet covered by

- **KAUST Magazine:** <https://insight.kaust.edu.sa/2023/10/04/a-knack-for-data-and-love-of-animals-breeds-a-tool-for-mammal-conservation/>