Dongping Chen

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EDUCATION

Sep 2021 - Jun 2025 (Expected)   Huazhong University of Science and Technology
Grade: 3.6/4, Rank: 8/60   **Degree:** Bachelor of Engineering   **Major:** Big Data Science and Technology

Aug 2024 - Jan 2025 (Expected)   University of Washington
Degree: Visiting Scholar   **Major:** Artificial Intelligence

Publication

- **Dongping Chen***, Ruoxi Chen*, Shilin Zhang*, *et al.* ***MLLM-as-a-Judge****: Assessing Multimodal LLM-as-a-Judge with Vision-Language Benchmark.* **ICML 2024** (Oral). [PDF] [Website]
- Chujie Gao *, Qihui Zhang *, **Dongping Chen** *, Yue Huang, Siyuan Wu, Zhengyan Fu, Yao Wan, Lichao Sun, Xiangliang Zhang[†]. ***The Best of Both Worlds****: Toward an Honest and Helpful Large Language Model.* **NeurIPS 2024**. [PDF] [Website]
- Qihui Zhang*, Chujie Gao*, **Dongping Chen***, Yue Huang, *et al.* ***LLM-as-a-Coauthor****: Can Mixed Human-Written and Machine-Generated Text Be Detected?* **NAACL 2024** (Findings). [PDF] [Website]
- **Dongping Chen** *, Jiawen Shi *, Yao Wan[†], Pan Zhou[†], Neil Gong, Lichao Sun. ***Self-Cognition in Large Language Models****: An Exploratory Study.* **LLM and Cognition Workshop @ ICML 2024** (Poster). [PDF]
- Huichi Zhou *, Zhaoyang Wang *, Hongtao Wang[†], **Dongping Chen**, Wenhan Mu, Fangyuan Zhang. *Evaluating the Validity of Word-level Adversarial Attacks with Large Language Models.* **ACL 2024** (Findings). [PDF]

In Submission

- **Dongping Chen** *, Yue Huang *, Siyuan Wu, · · ·, Yao Wan[†], Pan Zhou[†], Jianfeng Gao, Lichao Sun. ***GUI-World****: A Dataset for GUI-Oriented Multimodal LLM-based Agents.* arXiv preprint arXiv:2406.10819, 2024. [PDF] [Website]
- **Dongping Chen** *, Ruoxi Chen *, Shu Pu *, Zhaoyi Liu *, Yanru Wu *, Caixi Chen *, Benlin Liu, Yue Huang, Yao Wan, Pan Zhou, Ranjay Krishna[†]. ***Interleaved Scene Graph*** *for Interleaved Text-and-Image Assessment.* In Submission. [PDF] [Website]
- Yue Huang * Jingyu Tang *, **Dongping Chen**, Bingda Tang, Yao Wan, Lichao Sun, Xiangliang Zhang[†]. ***ObscurePrompt****: Jailbreaking Large Language Models via Obscure Input* arXiv preprint arXiv:2406.13662, 2024. [PDF] [Website]
- Yue Huang *, Siyuan Wu *, Chujie Gao, **Dongping Chen**, Qihui Zhang, Yao Wan, Tianyi Zhou, Xiangliang Zhang, Jianfeng Gao, Chaowei Xiao, Lichao Sun. ***UniGen****: A Unified Framework for Textual Dataset Generation Using Large Language Models.* arXiv preprint arXiv:2406.18966, 2024. [PDF] [Website]
- Jiayi Ye *, Yanbo Wang *, Yue Huang *, **Dongping Chen**, Qihui Zhang, · · ·, Xiangliang Zhang[†] ***Justice or Prejudice?*** *Quantifying Biases in LLM-as-a-Judge.* In Submission. [PDF]
- Yi Gui *, Zhen Li *, Yao Wan[†], Yemin Shi, Hongyu Zhang, Bohua Chen, Yi Su, **Dongping Chen**, Siyuan Wu, Xing Zhou, Wenbin Jiang, Hai Jin. ***Vision2UI****: A Real-World Dataset for Code Generation from UI Designs with Layouts.* arXiv preprint arXiv:2404.06369, 2024. [PDF]
- Mingmeng Geng, Caixi Chen, Yanru Wu, **Dongping Chen**, Yao Wan, Pan Zhou. *The Impact of Large Language Models in Academia: from Writing to Speaking.* In Submission to NAACL 2025.
- **Dongping Chen**. ***Aggregate, Decompose, and Fine-Tune****: A Simple Yet Effective Factor-Tuning Method for Vision Transformer.* arXiv preprint arXiv:2311.06749, 2023. [PDF]

EXPERIENCE

Research Internship in University of Washington, Supervised by Prof. Ranjay Krishna
Full-time, Research Intern   July 2024 – Present

- **(In progress)** Research on combining Multimodal Language Models (MLM) with diffusion models.
- **(In progress)** Interleaved text-and-image generation instruction tuning.
- Exploration and evaluation of interleaved text-and-image generation with novel evaluation framework.

Research Internship in HUST, Supervised by Prof. Yao Wan and Prof. Pan Zhou
Part-time, Research Intern   Oct 2023 – Present

- **(In progress)** Vision2UI Agent, using LLM as the orchestrating model to complete webpage generation tasks.
- **(In progress)** GUI Agents.
- Analysis of biases in using large language models as evaluators (LLM-as-a-Judge).
- Potential impacts of large language models on humans.
- Research on LLM-based GUI Agents. We propose a dataset **Gui-World** focusing on GUI-oriented capabilities in current MLLMs and **Vision2UI** focusing HTML code generation from a screenshot of webpage.
- Research on detection of Human-AI collaborated content and LLM's self-cognition.
- Engaged in in-depth research on multimodal models in knowledge representation, Trustworthy Large Language Models (LLMs), and jailbreak method **ObscurePrompt**.
- Developed the first comprehensive benchmark **MLLM-as-a-Judge** in multimodal domains, incorporating human annotations to evaluate the judgment capabilities of machine learning models in scoring evaluation, pair comparison, and batch ranking tasks.

Others

Language: Mandarin (native), Cantonese (native), English (TOFEL 101). **Research Interests:**

- **Multimodal Understanding, Generation and Evaluation.** This includes MLLM-as-a-Judge (ICML'24), Interleaved Scene Graph, GUI-World.
- **LLM-based Agents.** This includes UniGen, Vision2UI, GUI-Agent and Vision2UI-Agent.
- **Trustworthy AI.** This includes HonestLLM (NeurIPS'24), MixText (NAACL'24), AVLLM (ACL'24), Self-Cognition (ICMLW'24), Bias in LLM-as-a-Judge.