

# Da Yin

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UCLA NLP Group

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[Google Scholar](#)

## Education

- **University of California, Los Angeles (UCLA)** Sept 2020 - Present  
*CS Ph.D. Candidate*
  - **Amazon PhD Fellow (2023)**
  - Advised by Prof. Kai-Wei Chang
- **Peking University** 2016 - 2020  
*Undergraduate Student*
  - Advised by Prof. Xiaojun Wan and Prof. Baobao Chang
- **Research Interests**
  - **Building Generalizable and Inclusive AI Models across Tasks and Regions**
    - \* **LLM Reasoning and Planning** – Generalist Language Agent Training
    - \* **LLM Alignment** – Enhancing Instruction Following and Cross-Task Generalization
    - \* **Cross-Region/Culture Generalization**

## Manuscript

- **LLMs as General-Purpose Simulators For Agent Training**
  - Yiming Wang\*, Yuedong Cui\*, **Da Yin\***, Chenchen Ye, Zongyu Lin, Di Wu, Xueqing Wu, Kai-Wei Chang.
  - **In Progress** (Equal Contribution).
- **Guiding Through Complexity: What Makes Good Supervision for Hard Reasoning Tasks?**
  - Xuan He\*, **Da Yin\***, Nanyun Peng.
  - **In Submission** (Equal Contribution).
- **Q\* Agent: Optimizing Language Agents with Q-Guided Exploration**
  - Zongyu Lin\*, Yao Tang\*, **Da Yin\***, Stuart X. Yao, Ziniu Hu, Yizhou Sun, Kai-Wei Chang.
  - **In Submission** (Equal Contribution).
- **OfficeBench: Benchmarking Language Agents across Multiple Applications for Office Automation**
  - Zilong Wang, Yuedong Cui, Li Zhong, Zimin Zhang, **Da Yin**, Bill Yuchen Lin, Jingbo Shang.
  - Arxiv Preprint. [\[Paper\]](#) [\[Code\]](#)

## Publication

### LLM Reasoning and Planning

- **Agent Lumos: Unified and Modular Training for Open-Source Language Agents**
  - **Da Yin**, Faeze Brahman, Abhilasha Ravichander, Khyathi Chandu, Kai-Wei Chang, Yejin Choi, Bill Yuchen Lin.

- ACL 2024. [\[Paper\]](#) [\[Code\]](#) (440+ [Github Stars](#)) [\[Project Page\]](#)
- **Trial and Error: Exploration-Based Trajectory Optimization for LLM Agents**
  - Yifan Song, **Da Yin**, Xiang Yue, Jie Huang, Sujian Li, Bill Yuchen Lin.
  - ACL 2024. [\[Paper\]](#) [\[Code\]](#)
- **The Magic of IF: Investigating Causal Reasoning Abilities in Large Language Models of Code**
  - Xiao Liu, **Da Yin**, Chen Zhang, Yansong Feng and Dongyan Zhao.
  - ACL 2023 Findings. [\[Paper\]](#) [\[Code\]](#)
- **Things not Written in Text: Exploring Spatial Commonsense from Visual Signals**
  - Xiao Liu, **Da Yin**, Yansong Feng, Dongyan Zhao.
  - ACL 2022. [\[Paper\]](#) [\[Code\]](#)
- **A Survey of Knowledge-Intensive NLP with Pre-Trained Language Models**
  - **Da Yin**, Li Dong, Hao Cheng, Xiaodong Liu, Kai-Wei Chang, Furu Wei, Jianfeng Gao.
  - Presented at Spa-NLP @ ACL 2022. [\[Paper\]](#)
- **Everything Has a Cause: Leveraging Causal Inference in Legal Text Analysis**
  - Xiao Liu\*, **Da Yin\***, Yansong Feng, Yuting Wu, Dongyan Zhao.
  - NAACL 2021 (Equal Contribution). [\[Paper\]](#) [\[Code\]](#) (**Oral**)

## LLM Alignment

- **SafeWorld: Geo-Diverse Safety Alignment**
  - **Da Yin\***, Haoyi Qiu\*, Kung-Hsiang Huang, Kai-Wei Chang, Nanyun Peng.
  - NeurIPS 2024. (Equal Contribution)
- **Dynosaur: A Dynamic Growth Paradigm for Instruction-Tuning Data Curation**
  - **Da Yin\***, Xiao Liu\*, Fan Yin\*, Ming Zhong\*, Hritik Bansal, Jiawei Han, Kai-Wei Chang.
  - EMNLP 2023. (Equal Contribution) [\[Paper\]](#) [\[Code\]](#) [\[Project Page\]](#)
- **Towards a Unified Multi-Dimensional Evaluator for Text Generation**
  - Ming Zhong, Yang Liu, **Da Yin**, Yuning Mao, Yizhu Jiao, Pengfei Liu, Chenguang Zhu, Heng Ji, Jiawei Han.
  - EMNLP 2022. [\[Paper\]](#) [\[Code\]](#) (**Oral, 175/4100≈4.3%**)
- **QMSum: A New Benchmark for Query-based Multi-domain Meeting Summarization**
  - Ming Zhong\*, **Da Yin\***, Tao Yu, Ahmad Zaidi, Murori Mutuma, Rahul Jha, Ahmed Hassan Awadallah, Asli Celikyilmaz, Yang Liu, Xipeng Qiu, Dragomir Radev.
  - NAACL 2021 (Equal Contribution). [\[Paper\]](#) [\[Code\]](#) (**Oral**)

## Cross-Region/Culture Generalization

- **GIVL: On Improving Geographical Inclusivity of Vision-and-Language Models with Pre-Training Methods**
  - Da Yin, Feng Gao, Govind Thattai, Michael Johnston, Kai-Wei Chang.
  - CVPR 2023. [\[Paper\]](#)
- **GeoMLAMA: Geo-Diverse Commonsense Probing on Multilingual Pre-Trained Language Models**
  - Da Yin, Hritik Bansal, Masoud Monajatipoor, Liunian Harold Li, Kai-Wei Chang.
  - EMNLP 2022. [\[Paper\]](#) [\[Code\]](#) (**Oral, 175/4100≈4.3%**)
- **How well can Text-to-Image Generative Models understand Ethical Natural Language Interventions?**
  - Hritik Bansal\*, Da Yin\*, Masoud Monajatipoor, Kai-Wei Chang.
  - EMNLP 2022. (Equal Contribution) [\[Paper\]](#) [\[Code\]](#) (**Oral, 175/4100≈4.3%**)
- **Broaden the Vision: Geo-Diverse Visual Commonsense Reasoning**
  - Da Yin, Liunian Harold Li, Ziniu Hu, Nanyun Peng, Kai-Wei Chang.
  - EMNLP 2021. [\[Paper\]](#) [\[Code\]](#) [\[Project Page\]](#) [\[Video\]](#) (**Oral, 315/3600≈8.8%**)

## Other Works

- **Bridging the Data Provenance Gap Across Text, Speech, and Video**
  - Shayne Longpre, ..., Da Yin (Top/Essential Contributor), ..., Sara Hooker, Jad Kabbara (43 authors).
  - In Submission.
- **Consent in Crisis: The Rapid Decline of the AI Data Commons**
  - Shayne Longpre, Robert Mahari, Ariel Lee, ..., Da Yin\*, ..., Sara Hooker, Jad Kabbara, Sandy Pentland (49 authors).
  - NeurIPS 2024 Dataset and Benchmark Track.
- **KPEval: Towards Fine-Grained Semantic-Based Keyphrase Evaluation**
  - Di Wu, Da Yin, Kai-Wei Chang.
  - ACL 2024 Findings. [\[Paper\]](#)
- **LEAF: Linguistically Enhanced Event Temporal Relation Framework**
  - Stanley Lim, Da Yin, Nanyun Peng.
  - Pan-DL @ EMNLP 2023. [\[Paper\]](#) (**Best Paper Award, Oral**)
- **SentiBERT: A Transferable Transformer-based Architecture for Compositional Sentiment Semantics**
  - Da Yin, Tao Meng, Kai-Wei Chang.
  - ACL 2020. [\[Paper\]](#) [\[Code\]](#)
- **What Does BERT with Vision Look At?**
  - Liunian Harold Li, Mark Yatskar, Da Yin, Cho-Jui Hsieh, Kai-Wei Chang.
  - ACL 2020. [\[Paper\]](#) [\[Code\]](#)
- **VisualBERT: A Simple and Performant Baseline for Vision and Language**

- Liunian Harold Li, Mark Yatskar, **Da Yin**, Cho-Jui Hsieh, Kai-Wei Chang.
- Arxiv Preprint. [\[Paper\]](#) [\[Code\]](#) (**520+ Github Stars**)
- **Interactive Multi-Grained Joint Model for Targeted Sentiment Analysis**
  - **Da Yin\***, Xiao Liu\*, Xiaojun Wan.
  - **CIKM 2019** (Equal Contribution). [\[Paper\]](#) (**Oral**)
- **A Soft Label Strategy for Target-Level Sentiment Classification**
  - **Da Yin**, Xiao Liu, Xiuyu Wu, Baobao Chang.
  - **WASSA @ NAACL 2019**. [\[Paper\]](#) (**Oral**)

## Internship

- **Jun 2024 - Present Microsoft Research**, Active Learning for Language Agent Learning.  
Mentors: Hao Cheng, Baolin Peng, Jianfeng Gao.
- **Jun 2023 - Present AI2 Mosaic Team**, Training Language Agents with Unified Formats, Modular Design, and Open-Source LLMs.  
Mentors: Bill Yuchen Lin, Faeze Brahman, Abhilasha Ravichander, Khyathi Chandu, Yejin Choi.
- **June 2022 - Dec 2022 Amazon Alexa AI Natural Understanding**, GIVL: On Improving Geographical Inclusivity of Vision-and-Language Models with Pre-Training Methods.  
Mentors: Feng Gao, Govind Thattai, Michael Johnston, Kai-Wei Chang.
- **June 2021 - Sep 2021 Microsoft Research & Microsoft Research Asia**, Survey on Knowledge-Enhanced Methods on Knowledge-Intensive NLP Tasks.  
Mentors: Xiaodong Liu, Li Dong, Furu Wei, Jianfeng Gao.
- **May 2020 - Nov 2020 Yale & Microsoft Research**, Query-based Meeting Summarization.  
Mentors: Tao Yu, Rahul Jha, Ahmed Hassan Awadallah, Asli Celikyilmaz, Dragomir Radev.

## Selected Awards

- **Mar 2024** Cohere AI Research Grant
- **Nov 2023** Best Paper Award of Pan-DL Workshop @ EMNLP 2023
- **Sep 2022** Amazon PhD Fellowship
- **Sep 2020** UCLA Graduate Division Fellowship
- **Sep 2019** UCLA CSST Honorable Mention of Best Presentation
- **Apr 2019** UCLA CSST Scholarship

## Teaching & Talks

- Fall 2024, **Language Agent Training**, USC.
- Winter 2024, **Building Generalizable and Inclusive Language Processing Models Across Tasks and User Groups**, Nanjing University.
- Winter 2023, **Building Generalizable and Inclusive Language Processing Models Across Tasks and User Groups**, CS 201, Computer Science Seminar, UCLA.
- Spring 2022, **CS 31**, Introduction to Computer Science, UCLA.
- Fall 2021, Winter 2022, **CS M146**, Introduction to Machine Learning, UCLA.

## Service

- ACL, EMNLP 2024, Action Editor (Area Chair).
- The 4th Southern California Natural Language Symposium (SoCal NLP), Publicity chair.
- The 1st Multilingual Multimodal Learning Workshop @ ACL 2022, Co-organizer
- {COLM, ICLR, ICML, JAIR, ACL, LLMAgent Workshop @ ICLR, ClimateNLP @ ACL} 2024, {ACL, EMNLP, NeurIPS, Instruction Workshop @ NeurIPS} 2023, {ACL, EMNLP, ACL SRW, ARR} 2022, {ACL, EMNLP} 2021, NAACL SRW 2021 Program Committee
- EMNLP 2021 Voluteer