



CHENGGUANG GAN

LLM RESEARCHER
AI AGENTS & INFORMATION EXTRACTION

RESEARCH AREA

- Large Language Models
- LLM Agents & Web UI Understanding
- Information Extraction / RAG
- Post-training & Instruction Tuning
- Japanese / Multilingual NLP

SKILL

- Python, PyTorch, HuggingFace
- DeepSpeed, PEFT, vLLM, LangChain
- Prompt engineering, SFT, evaluation
- MySQL, web systems, data pipelines

QUALIFICATION

- Ph.D. in Informatics
- Google Scholar: 271+ citations, h-index 7
- JLPT N1 / TOEIC L&R 690

OPEN SOURCE

- github.com/ganchengguang
- huggingface.co/ganchengguang

SELF-PROMOTION

- LLM researcher with a Ph.D. in Informatics, specializing in information extraction, LLM agents, prompt robustness, and Japanese/multilingual LLMs.
- First-author ACL Findings 2026 paper on multilingual information extraction datasets and open-domain information extraction LLMs.
- Published 15+ papers/preprints across ACL Findings, NeurIPS, IJCNN, PACLIC, NLDB, and Journal of Information Processing; 271+ Google Scholar citations.
- Built practical LLM systems for web UI guide generation, pharmaceutical sales support, banking contract management, and customer feedback analysis.

EXPERIENCE

Techtouch Inc. — LLM Researcher

Dec 2025 - Present

- Conduct LLM research for agentic automation and in-app guide generation on real-world web UIs.
- Built GuideWeb, a benchmark for automatic in-app guide generation; designed evaluation schema and model pipelines for LLM agents.

Tools: Python, PyTorch, Qwen, OpenAI/Gemini APIs, HTML/XPath, evaluation pipelines

Generic Solution Corporation — Data Scientist

Apr 2025 - Nov 2025

- Designed industry-specific LLM solutions for banking, pharmaceuticals, and consumer goods, combining domain knowledge, prompt engineering, RAG, and fine-tuning.
- Led/sub-led small engineering teams and translated business requirements into deployable AI workflows.

Tools: Python, MySQL, PyTorch, LangChain, domain-specific LLM systems

NII Large Language Model Center — Research Assistant

May 2024 - Mar 2025

- Evaluated Japanese LLMs/MLLMs for safety, robustness, instruction following, and harmful-output risks.
- Designed evaluation prompts and annotation guidelines for Japanese LLM benchmarking.

Tools: LLM-jp, Qwen2, GPT-4, Claude, Gemini, HuggingFace

RIKEN AIP — Research Assistant

Dec 2023 - May 2024

- Researched instruction tuning for Japanese LLMs using manually annotated instruction corpora.
- Evaluated dataset quality and model performance for dialogue and task-specific improvements.

Tools: LLM-jp, Qwen, PyTorch, HuggingFace, BLEU/ROUGE/F1/Accuracy

EDUCATION

Yokohama National University — Doctor of Informatics

Apr 2022 - Mar 2025 | Research: Information Extraction, Prompting, LLM Agents, Multimodal LLMs

The Kyoto College of Graduate Studies for Informatics — M.S. in Information Technology

Apr 2020 - Mar 2022 | Web systems and deep-learning-based resume information extraction

East China Jiaotong University — Engineering Cost Management

2014 - 2018 | Engineering management, construction technology, and budget management

CONTACT

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Job Description

Techtouch Inc. - LLM Agent and In-App Guide Generation Research

Dec 2025 - Present | LLM Researcher

- Research and develop LLM-based agents for real-world web UI understanding and automatic in-app guide generation.
- Proposed and built GuideWeb, a benchmark for generating application guidance from real-world web pages, including data construction, strict JSON evaluation, and model baselines.
- Designed robust extraction/evaluation pipelines using HTML structure, XPath grounding, LLM prompting, and fine-tuning-ready data formats.

Tech stack / models: Python, PyTorch, Qwen, OpenAI/Gemini APIs, HTML/XPath, JSON schema, benchmark evaluation

Generic Solution Inc. - Pharmaceutical Industry LLM Sales Support System

Apr 2025 - Nov 2025 | Sub-Leader (4 members)

- Led the design of medical, paper, drug-label, and physician-information databases for a pharmaceutical MR support system.
- Developed domain-specific LLM workflows for high-quality promotional script generation by combining RAG, prompt engineering, and fine-tuning-oriented data design.
- Converted complex medical evidence into structured inputs suitable for local LLM generation and enterprise deployment.

Tech stack / models: Python, MySQL, PyTorch, Qwen, RAG, prompt engineering

Generic Solution Inc. - Banking Customer & Contract Management System

Apr 2025 - Nov 2025 | Leader (4 members)

- Directed an LLM-assisted contract and customer management system for banking operations.
- Integrated customer information, contract metadata, and LLM-based analysis to support loan-related decision workflows.
- Managed technical design and task coordination for a small applied AI engineering team.

Tech stack / models: Python, MySQL, LangChain, information extraction, document understanding

Generic Solution Inc. - Consumer Goods Review Analysis System

Apr 2025 - Nov 2025 | Member (3 members)

- Developed an NLP/LLM pipeline to analyze customer feedback, extract product-intent keywords, and identify improvement opportunities.
- Applied Japanese text preprocessing, sentence segmentation, sentiment/intention analysis, and database integration for large-scale customer voices.

Tech stack / models: Python, MySQL, Japanese NLP, LLM classification, customer feedback analytics

NII Large Language Model Center - Japanese LLM Safety Evaluation

May 2024 - Mar 2025 | Research Assistant

- Conducted empirical evaluations of Japanese LLMs and MLLMs for harmful outputs, bias, misinformation, robustness, and instruction-following reliability.
- Designed prompt sets, safety evaluation criteria, and annotation guidelines for model benchmarking and instruction-tuning research.

Tech stack / models: LLM-jp, Qwen2, GPT-4, Claude, Gemini, PyTorch, HuggingFace

RIKEN AIP - Japanese LLM Instruction Tuning

Dec 2023 - May 2024 | Research Assistant

- Curated and evaluated manually annotated Japanese instruction corpora for post-training Japanese LLMs.
- Measured model quality using BLEU, ROUGE, F1, Accuracy, diversity, and consistency metrics; optimized prompts for Japanese linguistic characteristics.

Tech stack / models: LLM-jp, Qwen, GPT, Claude, PyTorch, HuggingFace

Selected Publications & Research Output

First-Author Papers 10+ Publications	Google Scholar 271+ citations	h-index / i10-index 7 / 6	Top cited paper 138 citations
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SELECTED FIRST-AUTHOR PUBLICATIONS

1. **MMM: Multilingual Mutual Reinforcement Effect Mix Datasets & Test with Open-domain Information Extraction Large Language Models.** Findings of ACL 2026 (accepted). Chengguang Gan et al.
2. **GuideWeb: A Benchmark for Automatic In-App Guide Generation on Real-World Web UIs.** arXiv preprint, 2026. Chengguang Gan et al.
3. **Application of LLM Agents in Recruitment: A Novel Framework for Resume Screening.** Journal of Information Processing 32, 881-893, 2024. Chengguang Gan, Qinghao Zhang, Tatsunori Mori. 138 citations.
4. **GIELLM: Japanese General Information Extraction Large Language Model Utilizing Mutual Reinforcement Effects.** IJCNN 2025. Chengguang Gan, Qinghao Zhang, Tatsunori Mori.
5. **USA: Universal Sentiment Analysis Model & Construction of Japanese Sentiment Text Classification and Part of Speech Dataset.** PACLIC 2025. Chengguang Gan, Qinghao Zhang, Tatsunori Mori.
6. **Think from Words (TFW): Initiating Human-Like Cognition in Large Language Models Through Think from Words for Japanese Text-Level Classification.** NLDB 2024. Chengguang Gan, Qinghao Zhang, Tatsunori Mori.
7. **Sensitivity and Robustness of Large Language Models to Prompt Template in Japanese Text Classification Tasks.** PACLIC 37 / arXiv, 2023. Chengguang Gan, Tatsunori Mori. 46 citations.
8. **A Few-Shot Approach to Resume Information Extraction via Prompts.** NLDB 2023. Chengguang Gan, Tatsunori Mori.
9. **Sentence-to-Label Generation Framework for Multi-task Learning of Japanese Sentence Classification and Named Entity Recognition.** NLDB 2023. Chengguang Gan, Qinghao Zhang, Tatsunori Mori.

SELECTED CO-AUTHOR PUBLICATIONS

1. **II-Bench: An Image Implication Understanding Benchmark for Multimodal Large Language Models.** NeurIPS 2024. Ziqiang Liu et al., including Chengguang Gan.
2. **ReCode: Leveraging Reliable Self-Generated Tests and Fine-Grained Execution Feedback to Enhance LLM-Based Code Generation.** International Conference on Intelligent Computing, 2025. Yunhao Liang et al., including Chengguang Gan.
3. **Exploring Behavior-Driven Development for Code Generation.** International Conference on Intelligent Computing, 2025. Yunhao Liang et al., including Chengguang Gan.

OPEN-SOURCE RESEARCH ASSETS

- Constructed and released multilingual information extraction datasets, including 21 sub-datasets for MRE-style information extraction research.
- Released Japanese NLP datasets and models for sentiment analysis, part-of-speech-related classification, information extraction, and prompt-based evaluation.
- Maintains public research/code/model resources on GitHub and HuggingFace: github.com/ganchengguang / huggingface.co/ganchengguang.