SICONG JIANG

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SUMMARY

Final-year McGill Ph.D. and **Google DeepMind Research Intern** focusing on **AI Agents**, **Multimodal Model Evaluation**, and **Reward Modeling**. Recognized for developing **human-aligned reward models** and architecting **large-scale data/evaluation pipelines** from scratch. First-author contributor to top AI venues (**ICLR**, **EMNLP**, **ICRA**, **AISTATS**) with deep engineering proficiency in modern **LLM training paradigms**. **Actively seeking full-time industry roles** starting in **Fall 2026**.

EDUCATION

McGill University   Jan 2022 – Present
Ph.D in Center for Intelligent Machines   *Quebec, Canada*
Georgia Institute of Technology   Sep 2019 – Dec 2021
Master of Electrical and Computer Engineering   *Georgia, USA*
Northeastern University   Sep 2015 – June 2019
Bachelor of Electrical Engineering   *Shenyang, China*

EXPERIENCE

Google Deepmind   Mar 2026 – Sep 2026
Research Intern   *London, UK*
- **Self-evolving agents**: Built iterative self-refinement loops for long-horizon tasks, with measurable improvements via evaluator-driven feedback.
- **LLM-as-a-judge reliability**: Developed rubric-based diagnostics and stress tests to characterize judge failure modes (inconsistency, prompt sensitivity) and improve feedback trustworthiness.

Abaka AI   Aug 2025 – Feb 2026
Director of Research, Founding Member of Technical Team   *Palo Alto, California*
- **Research (benchmarking & evaluation)**: As a founding member of the Research team, led benchmarking and evaluation for **agentic** and **multimodal** LLMs; led **EditReward** and co-developed large-scale benchmarks including **SuperGPQA** and **VeriGUI**.
- **Advanced dataset & pipeline design**: Led multiple **zero-to-one** pipeline builds—architecting and deploying high-difficulty datasets and production pipelines from scratch across **coding**, **IMO-level math**, **multimodal data**, **agentic trajectories**, and **RL** environments.
- Delivered **datasets and pipelines** used directly for **model training/evaluation** for multiple **frontier AI labs**.

Mercor   May 2025 – Aug 2025
Applied Scientist Intern   *Remote*
- **Data quality & evaluation**: Designed multi-stage QA for large-scale LLM training annotations, improving consistency via calibration, automated checks, and targeted reviewer feedback loops.
- **Metrics & analytics**: Built labeler-performance metrics and monitoring to detect systematic errors and guide guideline iterations for higher-quality training data.

SELECTED PUBLICATIONS

* indicates equal contribution. For full list, visit Google Scholar.

- **[ICLR 2026]** Wu K[*], **Jiang S**[*], Ku M, et al. *EditReward: A Human-Aligned Reward Model for Instruction-Guided Image Editing*.
- **[EMNLP 2025]** Qian K[*], **Jiang S**[*], Zhong Y, et al. *AgentThink: A Unified Framework for Tool-Augmented Chain-of-Thought Reasoning in Vision-Language Models for Autonomous Driving*.
- **[ICRA 2026]** Luo Z[*], **Jiang S**[*], Qian K[*], Huang Z, Miao J, et al. *FASIONAD+: Enhanced Safety in Autonomous Driving with Adaptive Feedback*.
- **[AISTATS 2025]** Liu F[*], **Jiang S**[*], et al. *Adversarial Vulnerabilities in Large Language Models for Time Series Forecasting*.
- **[ICCV-W 2025]** **Jiang S**[*], Huang Z[*], Qian K[*], et al. *A Survey on Vision–Language–Action Models for Autonomous Driving*.

SKILLS

- **Languages:** Python, SQL, Java, MATLAB

- **ML/LLM stack:** PyTorch, TensorFlow, HuggingFace; Scikit-learn, XGBoost; Pandas/NumPy

- **LLM alignment & evaluation:** reward modeling, preference data; SFT, LoRA, RLHF (PPO/DPO/GRPO); LLM-as-a-judge reliability, agent evaluation, red-teaming

- **Applied domains:** multimodal image editing; vision-language for autonomous driving; time-series forecasting robustness; simulation (CARLA, SUMO)

SELECTED PROJECTS

EditReward: A Human-Aligned Reward Model for Image Editing
Project Lead, Collaborated with University of Waterloo
- Spearheaded a **human-aligned reward model** for instruction-guided image editing; engineered scalable pipelines to construct **EditReward-DATA** (**200K+** preference pairs) and **EditReward-Bench**.
- Achieved broad industry adoption, with the benchmark and dataset utilized by leading research teams at **Meta**, **Google DeepMind**, **Apple**, **Adobe**, **Salesforce**; boosted GenAI-Bench by **+23%** over the Qwen2.5-VL baseline via reward-driven data curation.

Agent-Think: Tool-Augmented Reasoning in VLMs for Autonomous Driving
Project Lead, Collaborated with Xiaomi Inc. & Tsinghua University
- Proposed **Agent-Think**, a VLM framework for autonomous driving that combines structured CoT with **tool-augmented** reasoning; built a pipeline to auto-generate self-verified VQA with CoT & tool-use.
- Fine-tuned Qwen2.5-VL-7B with **SFT + GRPO** (LoRA), improving answer accuracy up to **+54%** and reasoning score up to **+33%** on public benchmarks.

Adversarial Attacks in LLM-based Time-Series Forecasting
Project Lead, McGill University
- Designed a **gradient-free, black-box attack** suite for LLM-based forecasters, raising MAE/MSE up to **45%** with perturbations limited to **2%** of the input-signal mean.
- Curated an automated evaluation pipeline and collaborated with several time-series foundation model teams (**Amazon Chronos**, **Nixtla TimeGPT**).

AWARDS

2021 – 2024 McGill Engineering Doctoral Awards (MEDA), McGill University

2021 TISED Doctoral Recruitment Awards (DRA), McGill University

2019 Outstanding Graduates of Liaoning Province

2019 Most Influential Graduates, Northeastern University

2018/2019 Northeastern University 1st Class Academic Scholarship

2017 National 1st Prize Award, China Undergraduate Mathematical Contest in Modeling

2016 Northeastern University 2nd Class Academic Scholarship

OTHER EXPERIENCE

Academic Service

- **Workshop Organizer**: CVPR 2026 (Video Generative Models: Benchmarks & Evaluation); ICCV 2025 (Memory and Vision); COLM 2025 (AI Agents: Capabilities and Safety).

- **Conference Reviewer**: NeurIPS, ICLR, AISTATS, CVPR, ICCV, COLM, EMNLP, AAAI, IROS, ICRA, ITSC.

- **Journal Reviewer**: IEEE RA-L; Transportation Research Part C (TRC); IEEE T-ITS.