Run Lin（林 润）

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Education

Master of Software Engineering **2023.09 - 2026.06**

- **School:** School of Computer Science and Engineering, University of Electronic Science and Technology of China (UESTC)
- **Research Interests:** Information Extraction, Aspect-based Sentiment Analysis, Personalized Recommendation

Bachelor of Computer Science and Technology **2019.09 - 2023.06**

- **School:** School of Artificial Intelligence, China University of Mining and Technology – Beijing (CUMTB)
- **Awards:** National Endeavour Scholarship, Outstanding Graduate, et al. **GPA:** 3.7/4.0 (Top 5 %)

Projects

Content sanitized per security protocols.

2021.12-2024.11 **National Key R&D Program (RMB 3.75 million，Completed)**

Contributed to developing Multi-granularity sentiment analysis algorithms for social media and technology evaluation text.

- **Public-opinion Collection:** Crawled and manually curated domestic & international public-opinion datasets on the 20th CPC Congress, plus weapon reviews from global military sites and defense firms.
- **Algorithm Design:** Designed a context-aware cross-task attention mechanism for aspect-level sentiment triplet extraction, which effectively handles long spans and multiple triplets in complex contexts. (Publication ②)
- **Deployment:** Algorithm delivered to the ** Provincial Public Security Department and integrated into its live system.

2023.01-2026.12 **National Natural Science Foundation Key Project (U22B2061, RMB 2.52 million, Ongoing)**

Led R&D on automated text annotation and knowledge-extraction algorithms for complex socio-political scenarios.

- **Data Construction:** 5k+ event instances LLM-generated from news briefs, quality-assessed via multi-model consensus.
- **Algorithm Design:** Proposed an ontology-guided generative model with multi-view prompting for event argument extraction; ensemble aggregation of prompt views yields +2 % over SOTA under low-resource settings. (Publication ①)
- **Deployment:** Delivered the extractor to CETC ** Institute.

2022.09-2025.08 **CMC Science and Technology Commission Project (RMB 5.50 million, Ongoing)**

Constructing annotation standards, ontology, and adaptive extraction for Taiwan-focused military-political text.

- **Ontology Construction:** Adapted ACE05/DuIE2/FNED schema for military-political-social events; model-annotated and human-verified 8k+ Taiwan-related posts from Facebook, Twitter and Instagram. (Publication ③)
- **Algorithm Design:** Addressed scarce military-political labels with a contrastive pre-training framework for few/zero-shot relation extraction, lifting zero-shot SOTA by >10%. (Publication ④, ⑤)
- **Deployment:** Extractor validated by a third-party lab, passed mid-term review, and deployed in an active-duty system.

2022.06-2024.06 **China Telecom Sichuan Project (RMB 2 million, Completed)**

Project goal: detect caller intents in Sichuan-dialect customer-service calls; built annotation platform and intent dataset.

- **Software Engineering:** Developed cdlabel, a full-stack online dialogue-annotation platform. (Django RESTful API + Vue/Nuxt.js), Containerized via Docker, deployed on China Telecom's on-premise Kubernetes cluster. (Open Source)
- **Data Construction:** Fine-tuned the open-source UniASR Sichuan-dialect ASR model to transcribe customer-service calls, then used cdlabel to create an intent-recognition dataset for speaker-role and intent classification.

Internship

2025.06-2025.08 **ByteDance: Personalized Recommendation Algorithm Intern (ByteIntern)**

Our group designed end-to-end algorithms and hardware for every stage of TikTok's video lifecycle, boosting client-side visual quality while cutting server-side transcoding and distribution costs.

- **Personalized User Profiling & Causal-Inference Modeling (Client-Side):** Leveraged TikTok's full-sample data covering more than one hundred user and behavioral attributes to construct Uplift models that quantify the average causal effect of video-quality interventions on user dwell time. Employed the AUUC (Area Under the Uplift Curve) metric to identify the population most sensitive to these interventions, then monitored this cohort through online A/B experiments to determine whether their response to the intervention was statistically significant.
  Uplift Modeling: Use Dragonnet, a potential-outcome framework that jointly estimates treatment effects and response propensities. Then adopt LHUC layers that inject user features layer-wise to sharpen treatment vs. control heterogeneity.
- **Cold-start Popularity Predictor for New Video Submissions (Server-side):** Models creator, video, and audience features to forecast CTR for new uploads, identifies latent user group, and enables precise delivery on the server side.

Publications

Publications Accepted Since 2024: (Link)

① **R Lin**, Y Liu, Y Gan, Y Cai, et al. GEMS: Generation-Based Event Argument Extraction via Multi-perspective Prompts and Ontology Steering. Association for Computational Linguistics. 2025. **(ACL, CCF-A Conference, Poster)**

② **R Lin**, Y Gan, T Lan, X Liu, et al. Revisiting Aspect Sentiment Triplet Extraction: A Span-level Approach with Enhanced Contextual Interaction. Expert Systems with Applications. 2025. **(ESWA, JCR-1 Journal, IF=8.7)**

③ D Luo*, **R Lin***, Q Liu, Y Cai, et al. Synergetic Interaction Network with Cross-task Attention for Joint Relational Triple Extraction. Joint International Conference on Computational Linguistics, Language Resources and Evaluation. 2024. **(LREC-COLING, CCF-B Conference, Oral, * means equal contribution)**

④ Y Gan, Q Liu, **R Lin**, T Lan, et al. Exploiting instance-label dynamics through reciprocal anchored contrastive learning for few-shot relation extraction. Neural Networks. 2025. **(NN, JCR-1 Journal, IF=9.7)**

⑤ D Luo, Y Gan, R Hou, **R Lin**, et al. Synergistic Anchored Contrastive Pre-training for Few-Shot Relation Extraction. AAAI Conference on Artificial Intelligence. 2024. **(AAAI, CCF-A Conference, Poster)**

⑥ Y Cai, Q Liu, Y Gan, **R Lin**, et al. Difinet: Boundary-aware semantic differentiation and filtration network for nested named entity recognition. Association for Computational Linguistics. 2024. **(ACL, CCF-A Conference, Oral)**

⑦ Y Cai, Q Liu, Y Gan, C Li, X Liu, **R Lin**, et al. Uncertainty-Aware Reasoning over Temporal Knowledge Graphs via Diffusion Process. Association for Computational Linguistics. 2024. **(ACL, CCF-A Conference, Poster)**

⑧ Y Gan, Q Liu, D Luo, R Hou, Y Cai, **R Lin**, et al. Pareto selective error feedback suppression for popularity–diversity balanced session-based recommendation. Engineering Applications of Artificial Intelligence. 2025. **(EAAI, JCR-1 Journal, IF=8.0)**

⑨ KM Ahmad, Q Liu, AA Khan, Y Gan, **R Lin**. Equilibrium Augmentation Mechanism to Enhance Federated Learning for Aspect Category Sentiment Analysis. Expert Systems with Applications. 2025. **(ESWA, JCR-1 Journal, IF=8.7)**

Patents Granted or Under Examination Since 2024:

1. J Li, Q Qu, **R Lin**, et al. Method and System for Extracting Employment Relationships from Personal Profiles. (**Granted**, No: CN114220112B)
2. Q Liu, **R Lin**, T Lan, et al. An Autoregressive Event-Argument Extraction Method Based on Multi-Perspective Prompt-Learning Templates (**Pending**, No: 202411198518.0)
3. Q Liu, Y Cai, Y Gan, **R Lin**, et al. A Temporal Knowledge Graph Reasoning Method Based on Diffusion Processes. (**Pending**, No: 202411196030.4)
4. Q Liu, X Liu, Y Gan, **R Lin**, et al. An Aspect-Level Sentiment Triplet Extraction Method Based on a Diffusion Model. (**Pending**, No: 202411194940.9)

Competitions

1. **Ranked #1** in CodaLab Competition: FewRel 1.0 to date. (Leaderboard1-Submission: CalvinLin011010)
2. **Ranked #1** in CodaLab Competition: FewRel 2.0 None-of-the-above to date. (Leaderboard2-Submission: SaCon)
3. National Third Prize, China Undergraduate Mathematics Competition, et al.

Activities

2019.10-2020.10 **Assistant Editor, Media Operations, New-Media Studio**

- Produced posters and retouched images with Photoshop & InDesign; edited videos and motion graphics in Premiere.
- Managed the official WeChat account "Youth·CUMTB," publishing multiple articles and driving engagement.

2019.10-2020.10 **R&D Officer, R&D Department, University Science & Technology Association**

- Co-organized campus science contests and tech events; honored as 'Excellent Student Leader'.

2019.10-2019.11 **Lead Guitarist, College Welcome Gala**

- Formed a campus band and performed lead guitar in a folk medley at the 2019 School welcome party.

2019.10-2021.10 **College Debate Team – Team Member & Judge for 2019 University Tournament**

- Champion debater (first speaker) in multiple campus championships.

Self-Assessment

Proficient in Python and experienced with PyTorch; solid research background in information extraction and sentiment analysis. Calm, proactive, and a strong team player who embraces new challenges. Actively engaged in student initiatives; avid runner and music enthusiast.