Junjie Li | Curriculum Vitae

github.com/L-Jun-Jie | Google Scholar | ORCID
junjieli2026@gmail.com | Changsha, Hunan, China

RESEARCH INTERESTS

Constraint Solving, Program Analysis

EDUCATION

2026-09 – Present
Ph.D.
Changsha, Hunan, China

- Hunan University / *Computer Science*
Advisor: Prof. Yufeng Zhang
Research focus: Constraint Solving, Program Analysis

2023 – 2026
M.Sc.
Changchun, Jilin, China

- Jilin University / *Software Engineering*
Advisor: Associate Prof. Yong Lai
Research focus: Satisfiability Modulo Theories and Sampling

2018 – 2022
B.Eng.
Zibo, Shandong, China

- Shandong University of Technology / *Software Engineering*

PUBLICATIONS

SMT(LIA) Sampling with High Diversity [paper] [code] *2026*
Yong Lai, **Junjie Li**, and Chuan Luo
Tools and Algorithms for the Construction and Analysis of Systems (TACAS 2026)
The author list has been sorted alphabetically by last name.

PROJECTS

HighDiv [code] *2023 – Present*
An SMT(LIA) sampler for high-diversity solutions.
- Integrates CDCL(T) with local search for high-diversity SMT(LIA) sampling.
- Introduces a boundary-aware move operator to balance scalability and randomness.

BDDSampler [code] *2023 – Present*
A C++ command-line tool for uniform sampling of satisfying assignments from bit-vector constraints using BDDs.
- Parses bit-vector constraints from JSON and represents their satisfying assignments with BDDs.
- Uses exact model counting to sample satisfying assignments uniformly.

SKILLS AND TOOLS

Formal Methods & Verification	Satisfiability Modulo Theories, Program Verification
Programming Languages	Python, C++
Tools & Frameworks	Z3, Bitwuzla, KLEE

LANGUAGES

Chinese (Mandarin)	Native speaker
English	College English Test Band 6 (CET-6)

INTERESTS

Hobbies	Reading, Music, Traveling