

# Pengyu Nie

*Ph.D. Student*

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## Research Interests

The combination of [natural language processing and software engineering](#), including comment analysis, comment generation, learning coding convention, etc.

Other software engineering and programming language topics, including specification languages and GPU computing.

## Education

2017–present **Ph.D. (in progress)**, *The University of Texas at Austin*, Austin, TX, USA.

Electrical and Computer Engineering Department, Software Engineering Track

*Supervisor*. Milos Gligoric

2013–2017 **Bachelor**, *The University of Science and Technology of China*, Hefei, China.

Special Class for the Gifted Young

*Major*. Photoelectric Information Science and Engineering

*GPA*. 3.54/4.30

*Minor*. Computer Science

*GPA*. 3.92/4.30

*Supervisor*. Ya Wang and Jiangfeng Du

*Thesis*. Long Distance Entanglement of NV Center Qubits via Ferromagnet

## Publications

- [3] Ahmet Celik, **Pengyu Nie**, Christopher J. Rossbach, and Milos Gligoric. Design, implementation, and application of GPU-based Java bytecode interpreters. In *Conference on Object-Oriented Programming Systems, Languages and Applications*, to appear. 2019.
- [2] **Pengyu Nie**, Rishabh Rai, Junyi Jessy Li, Sarfraz Khurshid, Raymond J. Mooney, and Milos Gligoric. A framework for writing trigger-action todo comments in executable format. In *Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering*, 385–396. 2019. This paper won an **ACM SIGSOFT Distinguished Paper Award**.
- [1] **Pengyu Nie**, Junyi Jessy Li, Sarfraz Khurshid, Raymond J. Mooney, and Milos Gligoric. Natural language processing and program analysis for supporting todo comments as software evolves. In *The Workshops of the Thirty-Second AAAI Conference on Artificial Intelligence (NL4SE)*, 775–778. 2018.

## Scholarships and Awards

2017–present The University of Texas at Austin Graduate School Fellowship  
2014, 2015, 2016 Outstanding Students Scholarship, USTC

2013 Outstanding Freshmen Scholarship, USTC

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## Professional Activities

- 2018–present Co-organizer, Natural Language for Software Engineering (NL4SE) Reading Group at the University of Texas at Austin
- IJCAI 2019 Review Assistant, International Joint Conference on Artificial Intelligence
- ISSTA 2019 External Reviewer, International Symposium on Software Testing and Analysis
- ICSE 2019 External Reviewer, International Conference on Software Engineering
- ESEC/FSE 2018 External Reviewer, Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering
- ASE 2018 External Reviewer, International Conference on Automated Software Engineering

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## Professional Experience

- 2016 Jul–Aug **Core Technology Researcher (Internship)**, *iFlytek Research*, Hefei, China.  
Worked with Feiwu Li and Pu Yang on music information retrieval, especially rhythm extraction of music

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## Presentations

- 2019 Aug [2] at SUSTech, Shenzhen, China
- 2019 Aug [2] at ESEC/FSE'19, Tallinn, Estonia
- 2019 Aug [2] at LIP6, Paris, France
- 2018 Feb [1] at NL4SE 2018, New Orleans, LA, USA