

# Zhengkai Wu

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 Peking University  
 Beijing, China, 100871

## EDUCATION

**BS, Computer Science and Technology, Peking University**

Expected 07/2016

Overall GPA: **3.62/4**

Major GPA: **3.81/4**

## RESEARCH INTEREST

To enroll into Ph.D program in Programming Language and Software Engineering

## AWARDS AND HONORS

1 <sup>st</sup> Place in ACM-ICPC Asia Phuket Regional Contest	11/2013
1 <sup>st</sup> Place in ACM-ICPC Asia Anshan Regional Contest	10/2014
ACM-ICPC World Finals 2013 Honorable Mention	07/2013
ACM-ICPC World Finals 2015 Silver Medal	05/2015
National Scholarship	10/2013
Wusi Scholarship	10/2014

## WORKING PAPER

- **Yingfei Xiong, Zhengkai Wu, Yiming Wu, Meng Wang, Lu Zhang** Bidirectionalizing the C Preprocessor

## RESEARCH EXPERIENCE

### PROGRAMMING LANGUAGE

**Research on Bidirectionalization of C Preprocessor**

01/2014 – Present

**Supervised by Assistant Prof. Yingfei Xiong, Software Engineering Institute**

- Perform bidirectionalization on C preprocessor to backward changes on the preprocessed code.
- Proposed an algorithm to deal with changes in macro expansions.
- Tested the method on the Linux Kernel Code.

## COMPETITIONS

### ACM-ICPC

**Team Ragnarok**

09/2012 – 07/2013

**Captain, with Chao Li, Huangxuan Liang**

- 2<sup>nd</sup> Place in ACM-ICPC 2012 Asia Tianjin Regional Contest.
- Honorable Mention in ACM-ICPC World Finals 2013 (Rank 14<sup>th</sup>).

**Team Armageddon**

09/2013 – 11/2013

**Captain, with Chao Li, Rui Zhu**

- 1<sup>st</sup> Place in ACM-ICPC 2013 Asia Phuket Regional Contest.

**Team Valkyrie**

09/2014 – 05/2015

**Captain, with Chao Li, Di Wang**

- 1<sup>st</sup> Place in ACM-ICPC 2014 Asia Anshan Regional Contest.
- Silver Medal in ACM-ICPC World Finals 2015 (Rank 5<sup>th</sup>).

**Google Codejam**

08/2014

- 7<sup>th</sup> Place in Third Round of the Online Contest.
- Codejam 2014 Finalist, top 25 of the world.

Los Angeles

## INTERNSHIP

**Software Engineering Intern at Google MTV**

07/2015 – 10/2015

**Supervised by Richard Trieu**

- Joined the Clang team. Learned how to hack into the clang interface.
- Improve the error messages produced in the macro expansions.
- Used part of the research ideas.

**EXTRACURRICULAR ACTIVITIES**

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Soccer Team Member of Department of Computer Science

09/2012 – 01/2015

Assistant Coach at Peking University ACM-ICPC team

08/2015 – Present

**COMPUTING SKILLS AND OTHERS**

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- **Computer skills:**   **Programming languages:**
  - **Skilled:** C, C++, Scheme
  - **Familiar:** Java, OCaml, Ruby, Python**Other Software and Operation Systems:** Windows, Linux, LaTeX.
- **Languages:**       English (TOEFL 106(28+29+23+26), GRE Verbal 155, Quantitative 168, AW 3.5)