

# FANG Nan

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## Research Interests

Mathematical Logic, Computability Theory, and Algorithmic Randomness.

## Education

Oct. 2015–	Ph.D. Student, Logic Group, Institute of Computer Science, Heidelberg University, Germany
Sep. 2012– Jul. 2015	Graduate Student, Center for Logic, Language and Cognition, Department of Philosophy, Peking University, China  <i>thesis:</i> Solovay Functions and Algorithmic Randomness  <i>supervisor:</i> Priv.-Doz. Wolfgang Merkle, Institute of Informatics, Heidelberg University & Taotao Xing, Associate Professor, Department of Philosophy, Peking University
Sep. 2008– Jun. 2012	Undergraduate, Department of Mathematics, Nanjing University, China  <i>thesis:</i> Computable Analysis of Differentiation and Integration  <i>supervisor:</i> Hong Lu, Associate Professor, Department of Mathematics, Nanjing University

## Visiting and Exchange

Sep. 2015	Visiting, Dr. George Barmpalias, Institute of Software, Chinese Academy of Science, China
May 2015– Jun. 2015	Visiting, “Focus Semester Computability and Randomness”, Heidelberg University, Germany
Nov. 2014– Jan. 2015	DAAD Exchange Student, Priv.-Doz. Wolfgang Merkle, Logic Group, Institute of Information, Heidelberg University, Germany

## Presentations

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|------|--|
| 2017 | Conference on Computability, Complexity and Randomness CCR 2017, Mysore, India, July 3 - 7<br><i>A left-c.e. real not computable by any Omega number with low redundancy</i>                         |
| 2016 | Montpellier - Heidelberg Workshop on Computability and Randomness, Maison de Heidelberg, Montpellier, June 16 - 17<br><i>Computing left-c.e. reals from <math>\Omega</math>-numbers</i>              |
| 2015 | Conference on Computability, Complexity and Randomness CCR 2015, Institute of Mathematics and Computer Science, Heidelberg University, June 22 - 26<br><i>Solovay Functions and No-Gap Phenomena</i> |

## Publication

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|------|--|
| 2016 | <i>Optimal asymptotic bounds on the oracle use in computations from Chaitin's Omega</i> , George Barmpalias, Nan Fang and Andy Lewis-Pye, Journal of Computer and System Sciences 82 (2016) 1283-1299. |
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## Skills

*Language:* Mandarin Chinese(mother tongue), English(fluency), Germany(B1)

*Computer:* C++, Python, Latex

## References

### **Wolfgang Merkle**

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### **George Barmpalias**

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### **Yanjing Wang**

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