

# Hang Zhou

Assistant Professor at *École Polytechnique*

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## Employment and Education

- 2017 – now **Assistant Professor in Computer Science.**  
*École Polytechnique, France.*
- 2015 – 2017 **Postdoctoral Researcher in Computer Science.**  
*Max Planck Institute for Informatics, Germany.*
- 2012 – 2015 **PhD in Computer Science.**  
*École Normale Supérieure de Paris.* Supervisor: Claire Mathieu.
- 2010 – 2012 **Master in Computer Science.**  
*École Normale Supérieure de Paris.*
- 2009 – 2010 **Licence (French Bachelor's degree) in Computer Science.**  
*École Normale Supérieure de Paris.*
- 2007 – 2009 **Studies in Computer Science, Peking University, China.**

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## Publications

### Conference Papers

- Optimization of Bootstrapping in Circuits.  
Fabrice Benhamouda, Tancrede Lepoint, Claire Mathieu, and Hang Zhou.  
*In Proceedings of the ACM-SIAM Symposium on Discrete Algorithms (SODA), 2017.*
- To Augment or Not to Augment: Solving Unsplittable Flow on a Path by Creating Slack.  
Fabrizio Grandoni, Tobias Mömke, Andreas Wiese, and Hang Zhou.  
*In Proceedings of the ACM-SIAM Symposium on Discrete Algorithms (SODA), 2017.*
- Near-Linear Query Complexity for Graph Inference.  
Sampath Kannan, Claire Mathieu, and Hang Zhou.  
*In Proceedings of the International Colloquium on Automata, Languages and Programming (ICALP), 2015.*
- Correlation Clustering and Two-edge-connected Augmentation for Planar Graphs.  
Philip Klein, Claire Mathieu, and Hang Zhou.  
*In Proceedings of the Symposium on Theoretical Aspects of Computer Science (STACS), 2015.*
- Sublinear-Time Algorithms for Monomer-Dimer Systems on Bounded Degree Graphs.  
Marc Lelarge and Hang Zhou.  
*In Proceedings of the International Symposium on Algorithms and Computation (ISAAC), 2013.*
- Graph Reconstruction via Distance Oracles.  
Claire Mathieu and Hang Zhou.  
*In Proceedings of the International Colloquium on Automata, Languages and Programming (ICALP), 2013.*

### Journal Papers

- Backtracking-Assisted Multiplication.  
Houda Ferradi, Rémi Géraud, Diana Maimut, David Naccache, and Hang Zhou.  
*In Journal of Cryptography and Communications, 2017.*
- Sublinear-Time Algorithms for Monomer-Dimer Systems on Bounded Degree Graphs.  
Marc Lelarge and Hang Zhou.  
*In Theoretical Computer Science (TCS), 2014.*

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## Teaching

- Design and Analysis of Algorithms, *Teaching assistant, École Polytechnique, 2017-2018.*
- Approximation Algorithms, *Lecturer, Saarland University and Max Planck Institute, 2017.*
- Introduction to Computer Science, *Teaching assistant, University Paris VII, 2012-2013.*
- Programming in C, *Teaching assistant, University Paris VII, 2012-2013.*

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## Talks

- Optimization of Bootstrapping in Circuits
  - *SODA conference, Spain, 2017*
  - *Highlights of Algorithms conference, Germany, 2017*
- To Augment or Not to Augment: Solving Unsplittable Flow on a Path by Creating Slack
  - *SODA conference, Spain, 2017*
- Network Inference: Graph Reconstruction and Verification
  - *Joint lecture series of the two Max Planck Institutes for Informatics and Software Systems, Germany, 2016*
  - *École Polytechnique Fédérale de Lausanne, Switzerland, 2016*
- Correlation Clustering and Two-edge-connected Augmentation for Planar Graphs
  - *STACS conference, Germany, 2015*
  - *Dagstuhl seminar, Germany, 2016*
- Near-Linear Query Complexity for Graph Inference
  - *ICALP conference, Japan, 2015*
  - *University of Copenhagen, Denmark, 2014*
- Graph Reconstruction via Distance Oracles
  - *ICALP conference, Latvia, 2013*
  - *École Normale Supérieure, France, 2014*
- Sublinear-Time Algorithms for Monomer-Dimer Systems on Bounded Degree Graphs
  - *ISAAC conference, Hong Kong, 2013*
- Approximation for Maximum Surjective CSPs
  - *ETH Zurich, Switzerland, 2012*
  - *École Polytechnique, France, 2011*
- From Olympiad in Informatics to Research in Algorithms
  - *Workshop for Finalists of German Olympiad in Informatics, Germany, 2017*

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## Awards

- Lise Meitner Award for Excellent Women in Computer Science (20,000 euros research fund), *Max Planck Institute, Germany, 2016*
- International Selection Fellowship (36,000 euros), *École Normale Supérieure, France, 2009*
- Chinese Enlightenment Award, *Peking University, China, 2008*
- Chinese Olympiad in Informatics:
  - Silver Medal in National Finalists' Olympiad, 2006
  - Bronze Medal in National Finalists' Olympiad, 2005
  - First Prizes in National Olympiad in Shanghai and Jiangsu Province, 2003, 2004, 2005, 2006
- First Prize, Mathematics Olympiad in Jiangsu Province, China, 2003
- 3<sup>rd</sup> place, IPSC (International online programming contest), 2006
- 2<sup>nd</sup> place, Classical Dance Competition in Wuxi, China, 2000

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## Languages

French    Fluent  
English    Fluent

German Advanced

Chinese Native

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## Services

- Reviewer for STOC, SODA, SoCG, ESA, STACS, TCS, etc.
- Coach at École Polytechnique for ACM-ICPC (International Collegiate Programming Contest).
- Postdoc and Master Scholarship Selection Committee, Max Planck Institute.

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## Software

C, C++, Pascal, Java, L<sup>A</sup>T<sub>E</sub>X, OCAML

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## Interests

Dancing, Rowing (French competitions' licence), Painting, Ping Pong, Chinese Chess