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.

Publications

Conference Papers

- A $(5/3 + \epsilon)$ -Approximation for Unsplittable Flow on a Path: Placing Small Tasks into Boxes. Fabrizio Grandoni, Tobias Mömke, Andreas Wiese, and Hang Zhou. In Proceedings of the ACM Symposium on Theory of Computing (STOC), 2018.
- Optimization of Bootstrapping in Circuits.
 Fabrice Benhamouda, Tancrède 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

Graph Reconstruction and Verification.
 Sampath Kannan, Claire Mathieu, and Hang Zhou.
 In ACM Transactions on Algorithms (TALG), 2018.

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

Teaching

- Introduction to Algorithms, École Polytechnique, 2018.
- Design and Analysis of Algorithms, École Polytechnique, 2017-2018.
- Approximation Algorithms, Max Planck Institute, 2017.
- Introduction to Computer Science, Paris Diderot University, 2012-2013.
- Programming in C, Paris Diderot University, 2012-2013.

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

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
- o First Prize, Mathematics Olympiad in Jiangsu Province, China, 2003

 $\circ~3^{rd}$ place, IPSC (International online programming contest), 2006

o 2^{nd} place, Classical Dance Competition in Wuxi, China, 2000

Languages

French Fluent English Fluent German Advanced Chinese Native

Services

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

Software

C, C++, Pascal, Java, LATEX, OCAML

Interests

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