

Hang Zhou

Tenured Assistant Professor, *École Polytechnique*

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Employment and Education

2017 – now **École Polytechnique, France**

- Tenured Assistant Professor in Computer Science.
- Habilitation (November 9, 2022).
Committee members: Nikhil Bansal (reviewer), Benjamin Doerr, Marc Lelarge (president), Claire Mathieu, Kurt Mehlhorn (reviewer), Thomas Sauerwald, and Jens Vygen (reviewer).

2015 – 2017 **Max Planck Institute for Informatics, Germany**

- Postdoctoral Researcher, hosted by Kurt Mehlhorn.
- [Lise Meitner Award](#) for Excellent Women in Computer Science.

2009 – 2015 **École Normale Supérieure de Paris, France**

- PhD in Computer Science (2015). Advisor: Claire Mathieu.
- Master in Computer Science (2012). Advisor: Marc Lelarge.
- Bachelor in Computer Science (2010).

2007 – 2009 **Peking University, China**

Selected Publications

In my field, the authors are usually listed in alphabetical order.

SOSA'23 Capacitated Vehicle Routing in Graphic Metrics.

Tobias Mömke and Hang Zhou.

SIAM Symposium on Simplicity in Algorithms, 2023.

STACS'23 An Approximation Algorithm for Distance-Constrained Vehicle Routing on Trees.

Marc Dufay, Claire Mathieu, and Hang Zhou.

International Symposium on Theoretical Aspects of Computer Science (STACS), 2023.

ITCS'23 Unsplittable Euclidean Capacitated Vehicle Routing: A $(2 + \epsilon)$ -Approximation Algorithm.

Fabrizio Grandoni, Claire Mathieu, and Hang Zhou.

Innovations in Theoretical Computer Science, 2023.

RSA'23 Iterated Tour Partitioning for Euclidean Capacitated Vehicle Routing.

Claire Mathieu and Hang Zhou.

Random Structures and Algorithms, 2023.

ICALP'22 A PTAS for Capacitated Vehicle Routing on Trees.

TALG'23 Claire Mathieu and Hang Zhou.

EATCS International Colloquium on Automata, Languages and Programming, 2022.

ACM Transactions on Algorithms, 2023.

ESA'21 A Simple Algorithm for Graph Reconstruction.

RSA'23 Claire Mathieu and Hang Zhou.

European Symposium on Algorithms, 2021.

Random Structures and Algorithms, 2023.

ISAAC'21 Probabilistic Analysis of Euclidean Capacitated Vehicle Routing.

Claire Mathieu and Hang Zhou.

International Symposium on Algorithms and Computation, 2021.

STOC'18 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.

ACM Symposium on Theory of Computing, 2018.

- TALG'18** Graph Reconstruction and Verification.
Sampath Kannan, Claire Mathieu, and Hang Zhou.
ACM Transactions on Algorithms, 2018.
- SODA'17** Optimization of Bootstrapping in Circuits.
Fabrice Benhamouda, Tancrede Lepoint, Claire Mathieu, and Hang Zhou.
ACM-SIAM Symposium on Discrete Algorithms, 2017.
- SODA'17** To Augment or Not to Augment: Solving Unsplittable Flow on a Path by Creating Slack.
Fabrizio Grandoni, Tobias Mömke, Andreas Wiese, and Hang Zhou.
ACM-SIAM Symposium on Discrete Algorithms, 2017.
- ICALP'15** Near-Linear Query Complexity for Graph Inference.
Sampath Kannan, Claire Mathieu, and Hang Zhou.
EATCS International Colloquium on Automata, Languages and Programming, 2015.
- STACS'15** Correlation Clustering and Two-edge-connected Augmentation for Planar Graphs.
Philip Klein, Claire Mathieu, and Hang Zhou.
International Symposium on Theoretical Aspects of Computer Science, 2015.
- ICALP'13** Graph Reconstruction via Distance Oracles.
Claire Mathieu and Hang Zhou.
EATCS International Colloquium on Automata, Languages and Programming, 2013.
- ISAAC'13** Sublinear-Time Algorithms for Monomer-Dimer Systems on Bounded Degree Graphs.
TCS'14 Marc Lelarge and Hang Zhou.
International Symposium on Algorithms and Computation, 2013.
Journal version in *Theoretical Computer Science*, 2014.

Selected Talks

- Joint Lecture Max Planck Institutes for Informatics and Software Systems, Germany, 2016.
- Conference Talks STOC, ITCS, SODA×2, SOSA, ICALP×3, ESA, STACS, ISAAC×2, HALG, Dagstuhl.
- Invited Talks Collège de France, ETH Zurich, EPFL, University of Copenhagen, Google.

Supervision

- Master Antoine Stark, 2021.
- Master Marc Dufay, *Académie des Sciences* prizewinner, 2022. Co-advised with Claire Mathieu.
- Bachelor Khanh Nguyen, 2021.
- Bachelor Pedro Cabral, 2022.

Teaching

- Course International Collegiate Programming Contest (ICPC) Training. École Polytechnique.
Each year since 2017.
★ *Created from scratch.*
Coach of the École Polytechnique team that won the [Championship](#) and Eight Medals in European Programming Competitions (SWERC) and twice advanced to the ICPC World Finals.
- Course Competitive Programming. École Polytechnique. Each year since 2018.
★ *Created from scratch.*
- Course Algorithms and Advanced Programming. École Polytechnique. Each year since 2020.
★ *Created from scratch.*
- Course Introduction to Algorithms. École Polytechnique. 2017–2018.
★ *Created from scratch.*
- Course Approximation Algorithms. Max Planck Institute for Informatics, Germany. 2016–2017.
In collaboration with Tobias Mömke.
★ *Created from scratch.*
- Tutorial Design and Analysis of Algorithms. École Polytechnique. Each year in 2017–2020.
- Tutorial Introduction to Computer Science. Université Paris Cité. 2012–2013.
- Tutorial Programming in C. Université Paris Cité. 2012–2013.

Grants and Awards

- Grant of Hi!Paris, principal investigator, 2022–2023
- Lise Meitner Award Fellowship, Max Planck Institute, Germany, 2015–2017
- International Selection Fellowship, École Normale Supérieure, France, 2009–2012
- 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
- Second Prize, Physics Olympiad in Jiangsu Province, China, 2003

Responsibilities

- Member of the Program Committee of SIAM SOSA, 2023.
- Reviewer for STOC, FOCS, SICOMP, SODA, SoCG, ICALP, SPAA, ESA, STACS, IPCO.
- Director of the École Polytechnique Programming Competitions, *since 2017*.
- Chair of the Teaching Team on Algorithms, Theory, and Programming, *École Polytechnique, since 2021*.
- Member of the Faculty Hiring Committee, *École Polytechnique, 2019, 2021, 2022*.
- Member of the Postdoc Selection Committee, *Max Planck Institute, 2017*.
- Member of the Master Scholarship Selection Committee, *Max Planck Institute, 2016–2017*.

Languages

English (fluent), French (fluent), German (advanced), Chinese (native)