



CONTACT INFORMATION	SPMS-MAS-05-34 21 Nanyang Link Singapore 637371	 <a href="http://LUXINHANG.COM">LUXINHANG.COM</a>  <a href="mailto:xinhang001@e.ntu.edu.sg">xinhang001@e.ntu.edu.sg</a>
RESEARCH INTERESTS	I am broadly interested in problems at the interface between computer science and economics. Recently, my work has focused on resource allocation.	
EDUCATION	<p><b>Ph.D. Candidate in Mathematical Sciences</b> Nanyang Technological University • Supervisor: Xiaohui Bei</p> <p><b>B.Eng. in Computer Science and Technology</b> Southeast University • Thesis: <i>Causal Explanation with Bayesian Networks</i> • Thesis advisors: Kevin B. Korb (Monash), Erik P. Nyberg (Monash), and Weiwei Wu</p> <p><b>Visiting Student</b>, Faculty of Information Technology Monash University • Supported by a scholarship for CSC-funded undergraduate program</p>	<p>July 2017 - Present Singapore</p> <p>August 2013 - June 2017 Nanjing, China</p> <p>January 2017 - May 2017 Melbourne, Australia</p>
CONFERENCE PROCEEDINGS	<p>C1. <b>Fair Division of Mixed Divisible and Indivisible Goods.</b> Xiaohui Bei, Zihao Li, Jinyan Liu, Shengxin Liu, and Xinhang Lu. In <i>Proceedings of the 34th AAAI Conference on Artificial Intelligence (AAAI)</i>, pages 1814–1821, 2020. doi:<a href="https://doi.org/10.1609/aaai.v34i02.5548">10.1609/aaai.v34i02.5548</a> AAAI-20 Outstanding Student Paper Award</p> <p>C2. <b>The Price of Fairness for Indivisible Goods.</b> Xiaohui Bei, Xinhang Lu, Pasin Manurangsi, and Warut Suksompong. In <i>Proceedings of the 28th International Joint Conference on Artificial Intelligence (IJCAI)</i>, pages 81–87, 2019. doi:<a href="https://doi.org/10.24963/ijcai.2019/12">10.24963/ijcai.2019/12</a></p>	
JOURNAL ARTICLES	<p>J1. <b>The Anatomy of the Global Football Player Transfer Network: Club Functionalities versus Network Properties.</b> Xiaofan Liu, Yuliang Liu, Xinhang Lu, Qixuan Wang, and Tongxing Wang. <i>PLOS ONE</i>, 11(6):e0156504, 2016. doi:<a href="https://doi.org/10.1371/journal.pone.0156504">10.1371/journal.pone.0156504</a></p>	
WORKING PAPERS	<ul style="list-style-type: none"> <li>• Xiaohui Bei, Shengxin Liu, Xinhang Lu, and Hongao Wang. <b>Maximin Fairness with Mixed Divisible and Indivisible Goods</b>, 2020. URL <a href="https://arxiv.org/abs/2002.05245">https://arxiv.org/abs/2002.05245</a></li> <li>• Xiaohui Bei, Ayumi Igarashi, Xinhang Lu, and Warut Suksompong. <b>The Price of Connectivity in Fair Division</b>, 2019. URL <a href="https://arxiv.org/abs/1908.05433">https://arxiv.org/abs/1908.05433</a></li> </ul>	
TEACHING EXPERIENCES	<p><b>Teaching Assistant</b>,* Nanyang Technological University</p> <ul style="list-style-type: none"> <li>• MH4320: Computational Economics</li> <li>• MH2500: Probability and Introduction to Statistics</li> <li>• MH1812: Discrete Mathematics</li> <li>• MH1811: Mathematics 2</li> <li>• MH1810: Mathematics 1</li> </ul> <p><b>Tutor</b>, SPMS Math Learning Centre, Nanyang Technological University</p>	<p>Fall 2019</p> <p>Fall 2019</p> <p>Fall 2019</p> <p>Spring 2019</p> <p>Fall 2018</p> <p>Spring 2020</p>

\*Awarded the [University Teaching for Teaching Assistant Certificate](#).

AWARDS AND HONOURS

- AAAI-20 Outstanding Student Paper Award 2020
- AAAI 2020 Student Scholarship, AAAI 2020 Student Scholar Program 2020
- IJCAI 2019 Travel Grant, IJCAI-AIJ 2019 Travel and Accessibility Grant Program 2019
- NTU Research Scholarship, Nanyang Technological University 2017 - 2021
- Scholarship for CSC-funded Undergraduate Program, China Scholarship Council 2016
- Zhang Zhiwei Scholarship, Southeast University Education Foundation 2016
- Guosheng Scholarship, Southeast University Education Foundation 2015
- Academic Award, Southeast University 2014, 2015, 2016

SERVICES

**Subreviewer**

- International Symposium on Algorithms and Computation (ISAAC): 2019
- National Conference of Theoretical Computer Science (NCTCS): 2019

**Volunteer**

- AAAI 2020 Student Volunteer
- IJCAI 2019 Student Volunteer
- Joint Tsinghua-NTU Winter School on Theoretical Computer Science 22 - 24 January 2019

**Lab Captain**, Division of Mathematical Sciences, SPMS, NTU May 2018 - May 2020

TALKS AND POSTER PRESENTATIONS

**Fair Division of Mixed Divisible and Indivisible Goods**

- 34th AAAI Conference on Artificial Intelligence (AAAI), New York, USA 09 February 2020

**The Price of Fairness for Indivisible Goods**

- 10th Singapore Mathematics Symposium Poster Presentation and Competition 24 September 2019
- 28th International Joint Conference on Artificial Intelligence (IJCAI), Macau, China 14 August 2019

SKILLS

**Programming** C++, Java, Python,  $\LaTeX$ , HTML/CSS

**Languages** Chinese, English