

# Ningxin Su

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PRESENT APPOINTMENT	Ph.D. Candidate Edward S. Rogers Sr. Department of Electrical and Computer Engineering University of Toronto 10 King's College Road Toronto, Ontario M5S 3G4, Canada	<i>Mobile:</i> (647) 852-2522 <i>Email:</i> ningxin.su@mail.utoronto.ca  <i>Address:</i> Unit 1201, 203 College St. Toronto, ON M5T 0C8, Canada
PERSONAL INFORMATION	<i>Citizenship</i> Chinese	
RESEARCH INTERESTS	Federated learning, Metaverse, Distributed machine learning, Networking	
EDUCATION	<b>University of Toronto</b> , Toronto, Ontario, Canada <i>Department of Electrical and Computer Engineering</i>  ◇ <b>Ph.D. Candidate</b> , Electrical and Computer Engineering, September 2020 – now <i>Advisor:</i> Baochun Li, Department of Electrical and Computer Engineering  <b>The University of Sheffield</b> , Sheffield, South Yorkshire, England <i>Department of Data Communications</i>  ◇ <b>M.Sc.</b> , Master of Science in Engineering, November 2020  <b>Beijing University of Posts and Telecommunications (BUPT)</b> , Beijing China <i>International School</i> (Joint Programme co-held by BUPT & Queen Mary University of London)  ◇ <b>B.Engr. &amp; B.Management</b> , E-Commerce Engineering with Law, June 2019	
HONOURS AND AWARDS	◇ <i>Best Paper Award</i> , the 1st IEEE International Conference on Metaverse Computing, Networking and Applications (MetaCom 2023) ▷ For the paper co-authored with Baochun Li and Bo Li, titled “Multi-Server Stable Rendezvous for the Metaverse,” published in the Proceedings of IEEE MetaCom 2023, June 2023.	
PUBLICATIONS	◇ <b>Refereed Journal Papers</b>  [J1] <b>Ningxin Su</b> , Baochun Li. “MLOps in the Metaverse: Human-Centric Continuous Integration,” in <i>IEEE Journal on Selected Areas in Communications (JSAC)</i> , Special issue on Human-Centric Communication and Networking for Metaverse over 5G and Beyond Networks.  ◇ <b>Refereed Papers in Conference Proceedings</b> (in reverse chronological order)	

[C6] Sijia Chen, **Ningxin Su**, Baochun Li. “Calibre: Towards Fair and Accurate Personalized Federated Learning with Self-Supervised Learning,” in the Proceedings of *IEEE International Conference on Distributed Computing Systems (ICDCS)*, Jersey City, USA, July 23 – 26, 2024.

[C5] **Ningxin Su**, Chenghao Hu, Baochun Li, Bo Li. “Titanic: Towards Production Federated Learning with Large Language Models,” in the Proceedings of *IEEE International Conference on Computer Communications (INFOCOM)*, Vancouver, Canada, May 20 – 23, 2024.

[C4] Baochun Li, **Ningxin Su**, Chen Ying, Fei Wang. “Plato: An Open-Source Research Framework for Production Federated Learning,” in the Proceedings of *ACM Turing Award Celebration Conference (TURC)*, Wuhan, China, July, 2023.

[C3] **Ningxin Su**, Baochun Li, Bo Li. “Multi-Server Stable Rendezvous for the Metaverse,” in the Proceedings of *IEEE International Conference on Metaverse Computing, Networking and Applications (MetaCom)*, Kyoto, Japan, June 26 – 28, 2023.

[C2] **Ningxin Su**, Baochun Li. “Asynchronous Federated Unlearning,” in the Proceedings of *IEEE International Conference on Computer Communications (INFOCOM)*, New York, USA, May 17 – 20, 2023.

[C1] **Ningxin Su**, Baochun Li. “How Asynchronous can Federated Learning Be?” in the Proceedings of *IEEE/ACM International Symposium on Quality of Service (IWQoS)*, Virtual Conference, June 10 – 12, 2022.

PROFESSIONAL  
EXPERIENCE

**University of Toronto**, Edward S. Rogers Sr. Department of Electrical and Computer Engineering, Toronto, Ontario, Canada

*Ph.D. Student*

*Teaching Assistant, APS105: Computer Fundamentals*

**September — now**  
**January 2022 — May 2022**

**Web Chair**, *IEEE International Conference on Metaverse Computing, Networking, and Applications (IEEE MetaCom)*, 2024.

**Reviewers for**

*IEEE Transactions on Dependable and Secure Computing*

*ACM Transactions on Sensor Networks*

*IEEE Transactions on Big Data*

*IEEE Transactions on Computational Social Systems*

*IEEE Transactions on Cloud Computing*

*IEEE Transactions on Network Science and Engineering*