Xia Hu

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EDUCATION

SEPT. 2016 - AUG. 2021	**Simon Fraser University** (SFU), British Columbia, Canada Ph.D. of Computing Science | Supervisor: Prof. Jian Pei
AUG. 2009 - JUL. 2013	**University of Science and Technology of China** (USTC), Anhui, China B.E. of Computer Science

RESEARCH INTERESTS

Machine Learning, Deep Learning, Model Complexity, Model Interpretability

PROJECTS AND PUBLICATIONS

2021 | **Model Complexity of Deep Learning: A Survey**
Xia Hu, Lingyang Chu, Jian Pei, Weiqing Liu, Jiang Bian. Knowledge and Information Systems (KAIS), 2021.

2020 | **Measuring Model Complexity of Deep Neural Networks with Curve Activation Functions.**
Xia Hu, Weiqing Liu, Jiang Bian, Jian Pei. 26th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD'20).

2019 | **Exact and Consistent Interpretation of Piecewise Linear Models Hidden behind APIs: A Closed-Form Solution.**
Zicun Cong, Lingyang Chu, Lanjun Wang, **Xia Hu** and Jian Pei. 36th IEEE International Conference on Data Engineering (ICDE'20).

2018 | **Exact and Consistent Interpretation for Piecewise Linear Neural Networks: A Closed-Form Solution.**
Lingyang Chu, **Xia Hu**, Juhua Hu, Lanjun Wang, Jian Pei. 24th ACM SIGKDD Conference On Knowledge Discovery and Data Mining(KDD'18).

WORK EXPERIENCES

JUL. 2014 - JUL. 2016	*Software Engineer*, SOGOU INC., Beijing, China
JUL. 2013 - APR. 2014	*Software Engineer*, BAIDU INC., Beijing, China

ACADEMIC SERVICE

- Organizer, SDM 2021 Tutorial: Deep Learning Model Complexity: Concepts and Approaches
- Conference reviewer/PC member, SDM 2020

AWARDS AND HONORS

- Stars of Tomorrow Internship Program, MSRA, 2020
- SIGKDD Student Travel Award, KDD'18, 2018
- Graduate Fellowship, SFU, 2016, 2018, 2019

TEACHING

- CMPT 880 - Deep Learning, Spring 2021 & Spring 2019, SFU, TA
- CMPT 307 - Data Structures, Summer 2020, SFU, TA
- CMPT 371 - Data Communications and Networking, Summer 2018, SFU, TA
- CMPT 276 - Introduction to Software Engineer, Spring 2017, SFU, TA
- CMPT 295 - Introduction to Computer Science, Fall 2016, SFU, TA