

# Xiling Li

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RESEARCH INTERESTS	Verifiable Query Evaluation, Secure Multiparty Computation, Zero Knowledge Proofs	
EDUCATION	<b>Ph.D. Computer Science</b> , Northwestern University • Advisor: Dr. Jennie Rogers	Jun 2021 - Present
	<b>M.S. Computer Science</b> , University of Washington • Advisor: Dr. Martine De Cock • Thesis: <i>Privacy-Preserving Filter-based Feature Selection with Secure Multiparty Computation</i>	Dec 2020
	<b>B.S. Computer Science</b> , University of California, San Diego	Dec 2016
RESEARCH EXPERIENCE	<b>Research Assistant</b> , Northwestern University • Proposed the first work [1] on verifiable and efficient query evaluation with zero knowledge proofs for ad-hoc SQL queries in an operator-at-a-time fashion.	Jun 2021 - Present
	<b>Research Assistant</b> , University of Washington @PPML Group • Proposed Mean-Split Gini Impurity algorithm (MS-GINI) [3] for Filter-based Feature Selection (FFS). • Proposed the first general cryptographic protocol [2] for FFS based on honest majority secure multiparty computation with active security, and instantiated feature scoring protocol based on MS-GINI.	Sep 2019 - May 2021
INDUSTRIAL EXPERIENCE	<b>Data Scientist</b> , IBM @Watson IoT • Implemented a case-based reasoning system for disaster prevention based on knowledge graph. • Implemented a defective product detection vision system based on object detection of different crucial parts of product and defective classification according to partial detection of the product. • Implemented a real-time multi-face recognition system for storage monitoring.	Jan 2018 - Aug 2019
	<b>Android Developer</b> , Shenzhen Das Intellitech Co.,Ltd @R&D Department	Jul 2017 - Dec 2017
SELECTED PUBLICATIONS	<p>[1] <b>Xiling Li</b>, Chenkai Weng, Yongxin Xu, Xiao Wang, Jennie Rogers. <i>ZKSQL: Verifiable and Efficient Query Evaluation with Zero-Knowledge Proofs</i>. In Proceedings of the VLDB Endowment (PVLDB), Volume 16, No. 8, 1804-1816, 2023. DOI:<a href="https://doi.org/10.14778/3594512.3594513">https://doi.org/10.14778/3594512.3594513</a>.</p> <p>[2] <b>Xiling Li</b>, Rafael Dowsley, Martine De Cock. <i>Privacy-Preserving Feature Selection with Secure Multiparty Computation</i>, In Proceedings of the 38th International Conference on Machine Learning, PMLR 139:6326-6336, 2021.</p> <p>[3] <b>Xiling Li</b>, Martine De Cock. <i>Cognitive load detection from wrist-band sensors</i>. In Adjunct Proceedings of the 2020 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2020 ACM International Symposium on Wearable Computers (UbiComp-ISWC '20). ACM, New York, NY, USA, 456-461. DOI: <a href="https://doi.org/10.1145/3410530.3414428">https://doi.org/10.1145/3410530.3414428</a></p>	
TEACHING	<b>Teaching Assistant</b> , COMP_SCI 339: Intro to Database Systems, Northwestern University, Spring 2023	
SERVICES	<b>Reviewer</b> : ICML 2021, 2022, 2023; NeurIPS 2021, 2022, 2023; ICLR 2022, 2023	
INVITED TALKS	<b>Privacy + Machine Learning</b> , Northwestern AI Journal Club, Nov 2021.	
TECHNICAL SKILLS	C++, Python, Java, EMP-toolkit, Scikit-Learn, PyTorch, MP-SPDZ, AWS EC2, Ubuntu, Docker	