

# Wei Ma | Curriculum Vitae

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[GitHub](#) | [Google Scholar](#)

## Introduction

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I am Wei Ma, a Ph.D. student from University of Luxembourg. I am going to graduate next year. I am looking for a post doctor position. My main research topic is Mutation Testing while I have some work about the deep learning testing and code representation learning. I am interesting in the combination of Software Engineering and Machine Learning.

## Education

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<b>University of Luxembourg</b>	<b>Luxembourg</b>
<i>Ph.D. Interdisciplinary Centre for Security, Reliability and Trust (SnT)</i>	2018 - 2022
<b>École Polytechnique Fédérale de Lausanne (EPFL)</b>	<b>Lausanne, Switzerland</b>
<i>M.S. in Computer Science Institute</i>	2015 - 2018
<b>Nanjing University</b>	<b>Nanjing, China</b>
<i>B.S. in Software Institute</i>	2010 - 2014

## Professional Experience

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## Publications

1. Wei Ma, Lu Jun. An equivalence of fully connected layer and convolutional layer[J]. arXiv preprint arXiv:1712.01252, 2017. (master thesis)
2. Wei Ma, Lu Jun, Faltings Boi. CompNet: Neural networks growing via the compact network morphism[J]. arXiv preprint arXiv:1804.10316, 2018.
3. Wei Ma, Mike Papadakis, Anestis Tsakmalis, Maxime Cordy, and Yves Le Traon. 2021. Test Selection for Deep Learning Systems. ACM Trans. Softw. Eng. Methodol. 30, 2, Article 13 (March 2021), 22 pages.
4. Wei Ma, T. Laurent, Milos Ojdanić, T. T. Chekam, A. Ventresque and M. Papadakis, "Commit-Aware Mutation Testing," 2020 IEEE International Conference on Software Maintenance and Evolution (ICSME), 2020, pp. 394-405, doi: 10.1109/ICSME46990.2020.00045.
5. Wei Ma, T. Titchou Chekam, M. Papadakis and Mark Harman, "MuDelta: Delta-Oriented Mutation Testing at Commit Time," 2021 IEEE/ACM 43rd International Conference on Software Engineering (ICSE), 2021, pp. 897-909, doi: 10.1109/ICSE43902.2021.00086.
6. Ma, Wei, and Richeek Patra. "Incremental KNN for Scalable Recommendation System."
7. Qiang Hu, Yuejun GUo, M Cordy, Xiaofei Xie, Wei Ma, M Papadakis, YL Traon. "Towards Exploring the Limitations of Active Learning: An Empirical Study"
8. Code Representation (under view, first author)

## Honors and Awards



### *IEEE Computer Society TCSE Distinguished Paper Award*

Awarded to

Wei Ma, Thomas Laurent, Miloš Ojdanić, Thierry Titcheu  
Chekam, Anthony Ventresquem, and Mike Papadakis

For the paper

### **Commit-Aware Mutation Testing**

Adelaide, Australia, September 30 – October 02, 2020

A handwritten signature in black ink, appearing to read "Ladan Tahvildari".

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Ladan Tahvildari, Chair  
IEEE Computer Society TCSE

A handwritten signature in black ink, appearing to read "Kelly Blincoe".

A handwritten signature in black ink, appearing to read "Xing Zhenchang".

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Kelly Blincoe and Zhenchang Xing  
Program Co-Chairs  
ICSME 2020