

# Shen Yan

## Education

---

<b>Michigan State University</b> , East Lansing, USA Ph.D., Computer Science, 3.8/4.0	Jan 2019 - Aug 2022
<b>RWTH Aachen University</b> , Aachen, Germany M.S., Computer Engineering, 1.2/1.0	Oct 2018
<b>Xidian University</b> , Xi'an, China B.S., Telecommunications Engineering, 3.82/4.0	July 2015

## Award

---

MSU Graduate Office Fellowship	Jan 2019
World Finalist, Kaggle Data Science Game, Paris	Sep 2016
Summer School Exchange Student, Tsinghua University	Aug 2015
Meritorious Winner, International Mathematical Contest In Modeling (MCM)	May 2014
First Prize Scholarship, Xidian University	Sep 2012, 2013

## Experience

---

<b>Research Scientist</b> Google Research, Mountain View, USA	Nov. 2022 - Current
<b>Research Intern</b> Google Brain, Mountain View, USA	Summer 2022
<b>Student Researcher</b> Google Research, Mountain View, USA	Fall 2021
<b>Research Intern</b> Google Research, Mountain View, USA	Summer 2021
<b>Research Intern</b> Abacus.AI, San Francisco, USA	Spring 2021
<b>Applied Machine Learning Intern</b> Bytedance Inc., Mountain View, USA	Summer 2020
<b>Research Intern</b> Bosch Research, Sunnyvale, USA	Summer 2019
<b>Research Intern</b> eBay Research, Aachen, Germany	Summer 2017
<b>Software Engineering Intern</b> Nuance Communications, Aachen, Germany	Summer 2016

## Publications

---

- [11] **Shen Yan**, Xuehan Xiong, Anurag Arnab, Zhichao Lu, Mi Zhang, Chen Sun, Cordelia Schmid. “Multiview Transformers for Video Recognition”. In *Conference on Computer Vision and Pattern Recognition (CVPR’ 22)*, New Orleans, USA, June 2022.
- [10] Yu Zheng, Zhi Zhang, **Shen Yan**, Mi Zhang. “Deep AutoAugment”. In *International Conference on Learning Representations (ICLR’ 22)*, Online, April 2022.
- [9] **Shen Yan\***, Colin White\*, Yash Savani, Frank Hutter. “NAS-Bench-x11 and the Power of Learning Curves”. In *Conference on Neural Information Processing Systems (NeurIPS’ 21)*, Online, Dec 2021.
- [8] **Shen Yan**, Kaiqiang Song, Fei Liu, Mi Zhang. “CATE: Computation-aware Neural Architecture Encoding with Transformers”. In *International Conference on Machine Learning (ICML’ 21)*, Online, July 2021. **[Long Presentation]**
- [7] **Shen Yan**, Yu Zheng, Wei Ao, Xiao Zeng, Mi Zhang. “Does Unsupervised Architecture Representation Learning Help Neural Architecture Search?”. In *Conference on Neural Information Processing Systems (NeurIPS’ 20)*, Online, Dec 2020.
- [6] Taojiannan Yang, Sijie Zhu, **Shen Yan**, Mi Zhang, Andrew Willis, Chen Chen. “MutualNet: Adaptive ConvNet via Mutual Learning from Network Width and Resolution”. In *European Conference on Computer Vision (ECCV’ 20)*, Online, Aug 2020. **[Oral Presentation]**
- [5] **Shen Yan**, Huan Song, Nanxiang Li, Lincan Zou, Liu Ren. “Improve Unsupervised Domain Adaptation with Mixup Training”. In *arXiv:2001.00677.*, Cornell University Library, January 2020.
- [4] **Shen Yan**, Biyi Fang, Faen Zhang, Yu Zheng, Xiao Zeng, Hui Xu, Mi Zhang. “HM-NAS: Efficient Neural Architecture Search via Hierarchical Masking”. In the Proceedings of *IEEE International Conference on Computer Vision (ICCV’ 19) Neural Architects Workshop*, Seoul, Korea, October 2019. **[Best Paper Award Nominee]**
- [3] **Shen Yan**, Leonard Dahlmann, Pavel Petrushkov, Sanjika Hewavitharana, Shahram Khadivi. “Word-based Domain Adaptation for Neural Machine Translation”. In the Proceedings of *The International Workshop on Spoken Language Translation (IWSLT’ 18)*, Bruges, Belgium, October 2018. **[Oral Presentation]**
- [2] Abin Jose, **Shen Yan**, Iris Heisterklaus. “Binary Hashing Using Siamese Neural Networks”. In the Proceedings of *IEEE International Conference on Image Processing (ICIP’ 17)*, Beijing, China, September 2017.
- [1] Harald Hanselmann, **Shen Yan**, Hermann Ney. “Deep Fisher Faces”. In the Proceedings of *The British Machine Vision Conference (BMVC’ 17)*, London, UK, September 2017.

## Patents

---

- [1] “System and Method for Unsupervised Domain Adaptation with Mixup Training”, US20210201159A1, Robert Bosch GmbH.

## Media Coverage

---

Synced Review. “MSU & AWS Present DeepAA: Fully Automated Data Augmentation Search That Rivals Human-Enhanced Approaches” Mar 2022

MSU Today [[Science & Technology](#)]. “MSU Team focused on AI earns recognition at Google MicroNet Challenge” Jan 2020

## Professional Services

---

### Program Committee

ICML 2021 Workshop on Automated Machine Learning (AutoML)

ICLR 2021 Workshop on Neural Architecture Search (NAS)

### Journal Reviewer

TMLR 2022

### Conference Reviewer

ICML 2020-2023, NeurIPS 2020-2022, ICLR 2021-2023, CVPR 2021-2023, ICCV 2021, ECCV 2022

## Skills

---

### Programming Language

Python/Perl, C/C++, Go, Lua, Bash/Shell, Make, HTML.

### Language

English, German, Chinese.

### Frameworks

Jax, Pytorch, Tensorflow, NumPy, SciPy, Scikit-Learn, OpenCV, OpenGL, Protobuf, Git.

### Systems

Linux, OSX.