Shijian Xu

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Education

○ **Universität Basel** **Basel, Switzerland**
Ph.D. student 04/2024 – 2028 (expected)
Supervisor: Prof. Volker Roth

○ **EPFL** **Lausanne, Switzerland**
M.Sc. in Data Science 09/2020 – 02/2023
Thesis: Weight Averaging for Out-of-Distribution Generalization and Few-Shot Domain Adaptation
Supervisor: Prof. Grigorios Chrysos & Prof. Volkan Cevher

○ **Nanjing University** **Nanjing, China**
B.Sc. in Computer Science and Technology 09/2014 – 06/2018
Thesis: Predicting Smartphone App Usage with Recurrent Neural Networks
Supervisor: Prof. Wenzhong Li

Publications & Preprints

○ NIMO: a Nonlinear Interpretable MOdel
Shijian Xu, Marcello Massimo Negri, Volker Roth
arXiv, 2025 (under review)

○ Simple Control Baselines for Evaluating Transfer Learning
Andrei Atanov*, **Shijian Xu***, Onur Beker, Andrei Filatov, Amir Zamir
arXiv, 2022

○ Predicting Smartphone App Usage with Recurrent Neural Networks
S. Xu, W. Li, X. Zhang, S. Gao, T. Zhan, Y. Zhao, W.-W. Zhu, T. Sun
International Conference on Wireless Algorithms, Systems, and Applications (WASA), 2018

Experience

○ **University of Basel** **Basel, Switzerland**
Ph.D. research 08/2024 – Current
- A nonlinear yet interpretable model that preserves the transparency of linear models while capturing the complex representations enabled by neural networks.

○ **Roche** **Basel, Switzerland**
PMDA Summer School 2024 05/08/2024 – 09/08/2024
- Predicting and understanding protein turnover in vitro and in vivo

○ **LIONS Lab, EPFL** **Lausanne, Switzerland**
Master Thesis, supervisor: Dr. Grigorios Chrysos & Prof. Volkan Cevher 09/2022 – 02/2023
Out-of-Distribution Generalization
- Improved weight averaging based method for OOD generalization and few-shot domain adaptation

○ **DisneyResearch|Studios** **Zürich, Switzerland**
Research Intern, mentor: Dr. Christopher Schroers & Dr. Abdelaziz Djelouah 02/2022 – 08/2022
- Image super-resolution

○ **VILAB, EPFL** **Lausanne, Switzerland**
Semester Project, supervisor: Prof. Amir Zamir 03/2021 – 12/2021
Evaluation of Self-Supervised Learning

- Proposed an evaluation standard for measuring the effectiveness of pre-training methods
- ○ **Tencent PCG**   **Shanghai, China**
  Research Intern   07/2021 – 09/2021
  - Transformer-based multi-label image classification
- ○ **Tencent AI Lab**   **Shenzhen, China**
  Research Intern   02/2020 – 08/2020
  - Self-supervised multi-modal video classification
- ○ **City University of Hong Kong**   **Hong Kong**
  Researcher   09/2018 – 12/2019
  - Deep learning for image specular highlight removal
  - Semi-supervised single image heavy rain removal
- ○ **Nanjing University**   **Nanjing, China**
  Project Student, supervisor: Prof. Wenzhong Li   09/2015 – 06/2018
  - LSTM based model for app usage prediction and recommendation

Teaching

Teaching assistant on the following courses:
- ○ Scientific Computing (University of Basel)   2024, 2025

Awards

- ○ Second Prize of Excellent Bachelor Thesis Award, Nanjing University   2018
- ○ Third Prize of Elite Program Scholarship, Nanjing University   2017
- ○ Honorable Mention for MCM 2017, Nanjing University   2017
- ○ Third Prize of People's Scholarship, Nanjing University   2016
- ○ Second Prize of People's Scholarship, Nanjing University   2015

Languages

- ○ **English:** Advanced, TOEFL iBT 103 (2023)
- ○ **German:** Beginner, A2 (in progress)
- ○ **French:** Beginner, A1/A2
- ○ **Chinese:** Native