Yulun JIANG

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EDUCATION

EPFL, Lausanne, Switzerland 2020 - present
Master in Data Science, GPA 5.56/6.00

Wuhan University, Wuhan, China 2016 - 2020
B.Eng in Communication Engineering, GPA 3.75/4.00

RESEARCH EXPERIENCE

Theory of Machine Learning Lab, EPFL Feb. 2023 - July 2023
`Master Thesis`, Advisor: Prof. Hongyang Zhang and Prof. Nicolas Flammarion
- Generating Invariance-based Adversarial Perturbations with Diffusion Models.

Image and Visual Representation Lab, EPFL Sep. 2021 - Jan. 2023
`Semester Project`, Advisor: Dr. Chen Liu and Prof. Sabine Süsstrunk
- Adversarial Robustness for Multiple ℓ_p-Norm Threat Models.
- Reliable and Efficient Adversarial Training for ℓ_1-Norm perturbation.

Multimedia Lab, Shenzhen Institude of Advanced Technolgy Nov. 2019 - May. 2020
`Research Assistant`, Advisor: Dr. Wu Shi and Prof. Yu Qiao.
- Texture Synthesis with Gradient Based Pseudo-Optimizer.

Human-Computer Interaction Lab, HKUST Jun. 2019 - Sep. 2019
`Research Intern`, Advisor: Dr. Ziming Wu and Prof. Xiaojuan Ma.
- Mobile Animation Engagement Reasoning with a Data Driven Approach.

INDUSTRY EXPERIENCE

Merck Institute for Pharmacometrics June 2022 - Dec. 2022
`Data Scientist Internship`
- Machine Learning for synthesizing virtual population for Quantitative Pharmacology.

PUBLICATION (* indicates equal contribution)

1. Yulun Jiang*, Chen Liu*, Zhichao Huang, Mathieu Salzmann, Sabine Süsstrunk. Towards Stable and Efficient Adversarial Training againts ℓ_1 Bounded Adversarial Attacks. ICML 2023, Hawaii, USA.

2. Ziming Wu, Yulun Jiang, Yiding Liu, Xiaojuan Ma. Predicting and Diagnosing User Engagement with Mobile UI Animation via a Data-Driven Approach. CHI 2020, Hawaii, USA.

TEACHING EXPERIENCE

Teaching Assistant of *CS-456, Artificial Neural Networks* at EPFL, Fall 2021.
Teaching Assistant of *CS-526, Learning Theory* at EPFL, Spring 2022.

SKILLS

Programming: Python, R, Matlab, Pytorch, Tensorflow, Jax, Pandas, LaTex, ect.
Language: English (fluent), Chinese Mandarin (native).