## WEITAO FENG

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Education				
University of Science and Technology of China Master of Engineering in Cyber Scurity		Sep.	<b>2022</b> – N Hefei, A	
Microsoft Research AI4Science Research Intern	Nov.	2022	– Jan. 2 Bea	2 <b>024</b> ijing
University of Science and Technology of China Bachelor of Engineering in Information Science	Sep.	2018	– May 2 Hefei, Au	
Publications				
<ul> <li>Toward White-box Protection for Customized Stable Diffusion Models via W</li> <li>Weitao Feng, Wenbo Zhou, Jiyan He, Jie Zhang, Tianyi Wei, Guanlin Li, Tianwei Zhang, eta</li> <li>Point out the necessity for white-box protection to Stable Diffusion model.</li> <li>Propose the Scaling Matrix for LoRA and prior-preserving fine-tuning.</li> <li>Release the first implementation of a watermark by integrating the watermark into the U-N</li> </ul>	l. ICML	,		2024
<ul> <li>Catch You Everything Everywhere: Guarding Textual Inversion via Concept Weitao Feng, Jiyan He, Jie Zhang, Tianwei Zhang, Wenbo Zhou, Weiming Zhang, Nenghai Yu</li> <li>Point out guarding against concept sharing is necessary, with novel concept watermarking p</li> <li>Utilize a progressive training strategy is adopted to enhance concept watermarking's fidelity</li> <li>Concept watermarking shows inherent robustness against pixel-level distortions.</li> </ul>	ı proposed		0 4	2023
<ul> <li>Control Risk for Potential Misuse of Artificial Intelligence in Science Jiyan He*, Weitao Feng*, Yaosen Min*, Jingwei Yi*, etal.</li> <li>Identify and classify potential risks associated with AI models in science.</li> <li>Propose building safeguarded scientific AI systems, and present SciGuard.</li> <li>Build Sci-Safetybench, a red-teaming dataset to assess the safety risks of scientific AI system</li> </ul>	ns		6	2023
<ul> <li>Predicting Equilibrium Distributions for Molecular Systems with Deep Learn Shuxin Zheng*, Jiyan He*, Chang Liu*, Yu Shi*, Ziheng Lu*, Weitao Feng, etal. Nature Molecular • Introduction of Distributional Graphormer (DiG) for predicting molecular systems' equilibr • DiG employs deep neural networks for efficient conformation generation and state density e</li> <li>• Application of DiG in tasks like protein conformation and ligand structure sampling, demon</li> </ul>	ium distr stimation	ibutions	5.	2024
Recent Projects				
<ul> <li>Face Landmark ControlNet   Stable Diffusion, ControlNet</li> <li>Train a ControlNet based on 68 face landmarks to achieve finer face control. This project is ControlNet's first release.</li> <li>Generate faces with identical poses and expressions; Control the facial expressions and pose</li> <li>Available both on GitHub and Huggingface.</li> </ul>				
<ul> <li>Human Perception Conformed Authenticity Assessment for Deepfake   Deepfake, IQA</li> <li>Conducted a crowdsourced quality assessment to create a deepfake quality assessment datas</li> <li>Propose a novel deepfake authenticity assessment metric consistent with human perception.</li> </ul>			Oct 2	2022
Selected Awards				
<ul> <li>Best Paper at the 3rd CSIG China Media Forensics and Security Conference, 2023</li> <li>The 4th place in 2022 CVPR biometric workshop face forgery detection track</li> <li>2021 China Artificial Intelligence Competition Multimedia Forgery Generation Track A Le</li> <li>Gold Medal, Scholarship for Outstanding Students of USTC, 2021</li> <li>Wang Xiaomo Scholarship for Excellence in Science and Technology, 2020</li> </ul>	vel			

Wang Xiaomo Scholarship for Excellence in Science and Technology, 2020
The second prize of Anhui Province in the 2020 National College Student Mathematics Competition

## Activities

<ul> <li>Laboratory   Laboratory Cluster Administrator</li> <li>Cluster storage structure modification and expansion, from ZFS to Ceph.</li> <li>Replacement of cluster compute nodes and routine maintenance.</li> </ul>	Oct 2022 - Now
<ul> <li>Information Security Design and Practice Class   Teaching Assistant</li> <li>Teach web browser security and designing the experiments.</li> </ul>	Mar 2022 - Jun 2022
<ul> <li>USTC Nebula CTF Team   Team Member</li> <li>Won 2nd place in 2021 TencentCTF.</li> <li>Participated in the organizing committee for Hackergame 2021 (with 4k registered participants)</li> </ul>	Jun 2020 - Dec 2021
<ul><li>Student Union   Vice president of Propaganda Department</li><li>Run the Student Union's WeChat Official Account.</li></ul>	Jun 2020 - Jun 2021
Linux User Group   Group Member	Oct 2019 - Now