

## Yinpeng Dong

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**Work Experience** Department of Computer Science and Technology 2022.01 -  
Tsinghua University, Beijing, China  
**Postdoctoral Researcher**, collaborated with Prof. Jun Zhu

**Education** Department of Computer Science and Technology 2017.09 - 2022.01  
Tsinghua University, Beijing, China  
**Ph.D**, advised by Prof. Jun Zhu

Department of Computer Science and Technology 2013.08 - 2017.06  
Tsinghua University, Beijing, China  
**Bachelor of Engineering**  
**GPA: 94.4/100; Rank: 2/107**

Robotic Institute 2016.06 - 2016.09  
Carnegie Mellon University, Pittsburgh, US  
**Visiting Student**

Department of Electrical Engineering and Computer Science 2015.06 - 2015.07  
National Tsing Hua University, Hsinchu, Taiwan  
**Exchange Student**

**Publications** (\* indicates equal contribution)

ViewFool: Evaluating the Robustness of Visual Recognition to Adversarial Viewpoints  
**Yinpeng Dong**, Shouwei Ruan, Hang Su, Caixin Kang, Xingxing Wei, and Jun Zhu  
*Advances in Neural Information Processing Systems (NeurIPS)*, 2022

Pre-trained Adversarial Perturbations  
Yuanhao Ban and **Yinpeng Dong**  
*Advances in Neural Information Processing Systems (NeurIPS)*, 2022

Isometric 3D Adversarial Examples in the Physical World  
Yibo Miao, **Yinpeng Dong**, Jun Zhu, and Xiao-Shan Gao  
*Advances in Neural Information Processing Systems (NeurIPS)*, 2022

Boosting Transferability of Targeted Adversarial Examples via Hierarchical Generative Networks  
Xiao Yang, **Yinpeng Dong**, Tianyu Pang, Hang Su, and Jun Zhu  
*European Conference on Computer Vision (ECCV)*, 2022

AutoDA: Automated Decision-based Iterative Adversarial Attacks  
Qi-An Fu, **Yinpeng Dong**, Hang Su, Jun Zhu, and Chao Zhang  
*31st USENIX Security Symposium (USENIX Security '22)*, 2022

GSmooth: Certified Robustness against Semantic Transformations via Generalized

Randomized Smoothing

Zhongkai Hao, Chengyang Ying, **Yinpeng Dong**, Hang Su, Jian Song, and Jun Zhu  
*International Conference on Machine Learning (ICML)*, 2022

Two Coupled Rejection Metrics Can Tell Adversarial Examples Apart

Tianyu Pang, Huishuai Zhang, Di He, **Yinpeng Dong**, Hang Su, Wei Chen, Jun Zhu, and Tie-Yan Liu

*IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022

Exploring Memorization in Adversarial Training

**Yinpeng Dong**, Ke Xu, Xiao Yang, Tianyu Pang, Zhijie Deng, Hang Su, and Jun Zhu

*International Conference on Learning Representations (ICLR)*, 2022

Query-Efficient Black-box Adversarial Attacks Guided by a Transfer-based Prior

**Yinpeng Dong\***, Shuyu Cheng\*, Tianyu Pang, Hang Su, and Jun Zhu

*IEEE Transaction on Pattern Analysis and Machine Intelligence (TPAMI)*, 2021

Accumulative Poisoning Attacks on Real-time Data

Tianyu Pang, Xiao Yang, **Yinpeng Dong**, Hang Su, and Jun Zhu

*Advances in Neural Information Processing Systems (NeurIPS)*, 2021

Black-box Detection of Backdoor Attacks with Limited Information and Data

**Yinpeng Dong**, Xiao Yang, Zhijie Deng, Tianyu Pang, Zihao Xiao, Hang Su, and Jun Zhu

*International Conference on Computer Vision (ICCV)*, 2021

Towards Face Encryption by Generating Adversarial Identity Masks

Xiao Yang, **Yinpeng Dong**, Tianyu Pang, Hang Su, Jun Zhu, Yuefeng Chen, and Hui Xue

*International Conference on Computer Vision (ICCV)*, 2021

Improving Transferability of Adversarial Patches on Face Recognition with Generative Models

Zihao Xiao, Xianfeng Gao, Chilin Fu, **Yinpeng Dong**, Wei Gao, Xiaolu Zhang, Jun Zhou, and Jun Zhu

*IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021

Bag of Tricks for Adversarial Training

Tianyu Pang, Xiao Yang, **Yinpeng Dong**, Hang Su, Jun Zhu

*International Conference on Learning Representations (ICLR)*, 2021

Adversarial Distributional Training for Robust Deep Learning

**Yinpeng Dong\***, Zhijie Deng\*, Tianyu Pang, Hang Su, and Jun Zhu

*Advances in Neural Information Processing Systems (NeurIPS)*, 2020

Understanding and Exploring the Network with Stochastic Architectures

Zhijie Deng, **Yinpeng Dong**, Shifeng Zhang, and Jun Zhu

*Advances in Neural Information Processing Systems (NeurIPS)*, 2020

Boosting Adversarial Training with Hypersphere Embedding

Tianyu Pang\*, Xiao Yang\*, **Yinpeng Dong**, Kun Xu, Hang Su, and Jun Zhu

*Advances in Neural Information Processing Systems (NeurIPS)*, 2020

Benchmarking Adversarial Robustness on Image Classification (**Oral**)  
**Yinpeng Dong**, Qi-An Fu, Xiao Yang, Tianyu Pang, Hang Su, Zihao Xiao, and Jun Zhu  
*IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020

Rethinking Softmax Cross-Entropy Loss for Adversarial Robustness  
Tianyu Pang, Kun Xu, **Yinpeng Dong**, Chao Du, Ning Chen, and Jun Zhu  
*International Conference on Learning Representations (ICLR)*, 2020

Improving Black-box Adversarial Attacks with a Transfer-based Prior  
Shuyu Cheng\*, **Yinpeng Dong\***, Tianyu Pang, Hang Su, and Jun Zhu  
*Advances in Neural Information Processing Systems (NeurIPS)*, 2019

Evading Defenses to Transferable Adversarial Examples by Translation-Invariant Attacks (**Oral**)  
**Yinpeng Dong**, Tianyu Pang, Hang Su, and Jun Zhu  
*IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019

Efficient Decision-based Black-box Adversarial Attacks on Face Recognition  
**Yinpeng Dong**, Hang Su, Baoyuan Wu, Zhifeng Li, Wei Liu, Tong Zhang, and Jun Zhu  
*IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019

Stochastic Quantization for Learning Accurate Low-bit Deep Neural Networks  
**Yinpeng Dong**, Renkun Ni, Jianguo Li, Yurong Chen, Hang Su, and Jun Zhu  
*International Journal of Computer Vision (IJCV)*, 2019

Composite Binary Decomposition Networks  
You Qiaoben, Zheng Wang, Jianguo Li, **Yinpeng Dong**, Yu-Gang Jiang, and Jun Zhu  
*The Thirty-Third AAAI Conference on Artificial Intelligence (AAAI)*, 2019

Towards Robust Detection of Adversarial Examples (**Spotlight**)  
Tianyu Pang, Chao Du, **Yinpeng Dong**, and Jun Zhu  
*Advances in Neural Information Processing Systems (NeurIPS)*, 2018

Boosting Adversarial Attacks with Momentum (**Spotlight**)  
**Yinpeng Dong**, Fangzhou Liao, Tianyu Pang, Hang Su, Jun Zhu, Xiaolin Hu, and Jianguo Li  
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018

Defense against Adversarial Attacks Using High-Level Representation Guided Denoiser  
Fangzhou Liao\*, Ming Liang\*, **Yinpeng Dong**, Tianyu Pang, Jun Zhu, and Xiaolin Hu  
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018

Learning Visual Knowledge Memory Networks for Visual Question Answering  
Zhou Su, Chen Zhu, **Yinpeng Dong**, Dongqi Cai, Yurong Chen, and Jianguo Li  
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018

Learning Accurate Low-Bit Deep Neural Networks with Stochastic Quantization (**Oral, Best Paper Nomination**)  
**Yinpeng Dong**, Renkun Ni, Jianguo Li, Yurong Chen, Jun Zhu, and Hang Su  
*British Machine Vision Conference (BMVC)*, 2017

Forecast Plausible Paths in Crowd Scenes  
 Hang Su, Jun Zhu, **Yinpeng Dong**, and Bo Zhang  
*International Joint Conference on Artificial Intelligence (IJCAI), 2017*

Improving Interpretability of Deep Neural Networks with Semantic Information  
**Yinpeng Dong**, Hang Su, Jun Zhu, and Bo Zhang  
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2017*

Efficient and Robust Semi-supervised Learning over a Sparse-Regularized Graph  
 Hang Su, Jun Zhu, Zhaozheng Yin, **Yinpeng Dong**, and Bo Zhang  
*European Conference on Computer Vision (ECCV), 2016*

Crowd Scene Understanding with Coherent Recurrent Neural Networks  
 Hang Su, **Yinpeng Dong**, Jun Zhu, Haibin Ling, and Bo Zhang  
*International Joint Conference on Artificial Intelligence (IJCAI), 2016*

## Preprints & Workshops

BadDet: Backdoor Attacks on Object Detection  
 Shih-Han Chan, **Yinpeng Dong**, Jun Zhu, Xiaolu Zhang, Jun Zhou  
*ECCV 2022 workshop on Adversarial Robustness in the Real World, 2022*

Adversarial Vision Challenge  
 Wieland Brendel, Jonas Rauber, Alexey Kurakin, Nicolas Papernot, Behar Veliki, Sharada P. Mohanty, Florian Laurent, Marcel Salathé, Matthias Bethge, Yaodong Yu, Hongyang Zhang, Susu Xu, Hongbao Zhang, Pengtao Xie, Eric P. Xing, Thomas Brunner, Frederik Diehl, Jérôme Rony, Luiz Gustavo Hafemann, Shuyu Cheng, **Yinpeng Dong**, Xuefei Ning, Wenshuo Li, Yu Wang  
*NeurIPS 2018 Competition Chapter, 2019*

Batch Virtual Adversarial Training for Graph Convolutional Networks  
 Zhijie Deng, **Yinpeng Dong**, and Jun Zhu  
*ICML 2019 Workshop on Learning and Reasoning with Graph-Structured Representation, 2019*

Towards Interpretable Deep Neural Networks by Leveraging Adversarial Examples  
**Yinpeng Dong**, Hang Su, Jun Zhu, Fan Bao, and Bo Zhang  
*AAAI 2019 Workshop on Network Interpretability for Deep Learning, 2019*

Adversarial Attacks and Defences Competition  
 Alexey Kurakin, Ian Goodfellow, Samy Bengio, **Yinpeng Dong**, Fangzhou Liao, Ming Liang, Tianyu Pang, Jun Zhu, Xiaolin Hu, et al.  
*NeurIPS 2017 Competition Chapter, 2018*

Feature Engineering and Ensemble Modeling for Paper Acceptance Rank Prediction  
 Yujie Qian\*, **Yinpeng Dong\***, Ye Ma\*, Hailong Jin, and Juanzi Li  
*KDD Workshop KDDCUP, 2016*

Selected Awards	National Postdoctoral Innovative Talents Support Program	2022.06
	Shuimu Tsinghua Scholar Program	2022.01
	Beijing Outstanding Graduates	2022.01
	ByteDance Scholars Program	2020.11

	<b>Tsinghua-HUAWEI Scholarship</b>	2020.10
	<b>Baidu Fellowship</b>	2020.01
	<b>‘84’ Future Innovation Scholarship</b>	2019.12
	<b>Microsoft Research Asia (MSRA) Fellowship</b>	2019.11
	<b>China National Scholarship</b>	2019.10
	<b>VALSE Annual Outstanding Student Paper Award</b>	2019.04
	<b>CCF-CV Academic Emerging Award</b>	2018.11
	<b>China National Scholarship</b>	2018.10
	<b>Tsinghua University Future PhD Fellowship</b>	2017.09
<b>Challenges</b>	<b>The 1st palce in GeekPwn DeepFake competition (Shanghai)</b>	2020.10
	<b>The 1st palces in GeekPwn CAAD CTF and Adversarial Patch competitions (Shanghai)</b>	2019.10
	<b>The 2nd place in the Untargeted Attack track of NeurIPS 2018 Adversarial Vision Challenge</b>	2018.11
	<b>The 2nd places in Targeted Attack track, Defense track, and the 3rd place in Non-targeted Attack track of GeekPwn CAAD competition</b>	2018.9
	<b>The 1st palce in GeekPwn CAAD CTF competition (Las Vegas)</b>	2018.8
	<b>The 1st places in NeurIPS 2017 Adversarial Attacks and Defenses</b>	2017.10
	<b>The 2nd place in KDDCUP 2016</b>	2016.7
<b>Services</b>	<b>Organizer for:</b> <b>ECCV 2022 Workshop</b> on Adversarial Robustness in the Real World <b>AAAI 2022 Workshop</b> on Adversarial Machine Learning and Beyond <b>ICML 2021 Workshop</b> on A Blessing in Disguise: The Prospects and Perils of Adversarial Machine Learning <b>ICCV 2021 Workshop</b> on Adversarial Robustness in the Real World <b>CVPR 2021 Workshop</b> on Adversarial Machine Learning in Real-World Computer Vision Systems and Online Challenges (AML-CV)	
	<b>Reviewer for:</b> <b>TPAMI</b> 2019, 2020, 2021, 2022 <b>IJCV</b> 2021, 2022 <b>TIP</b> 2019, 2020, 2021 <b>TNNLS</b> 2019, 2020 <b>NeurIPS</b> 2016, 2019, 2020, 2021, 2022 <b>ICML</b> 2019, 2021, 2022 <b>CVPR</b> 2019, 2020, 2021, 2022 <b>ICLR</b> 2020, 2021, 2022, 2023	

**ICCV** 2019, 2021  
**ECCV** 2020  
**AAAI** 2019, 2020, 2021  
**IJCAI** 2019, 2020

**Teaching**                    2019 Spring, **Head TA** in *Statistical Machine Learning*, instructed by Prof. Jun Zhu