

Yinpeng Dong

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Contact Information

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Education

Department of Computer Science and Technology 2017.09 -
Tsinghua University, Beijing, China
Ph.D. Student, 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

Computer Skills

Languages: C, C++, Python, Cuda.
Mathematical Computation: Matlab.
Deep Learning Tools: Tensorflow, Pytorch.
Operating Systems: Linux, Mac OSX, Windows.

Publications

(* indicates equal contribution)

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**)*, Vancouver, Canada,
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**)*, Vancouver, Canada,
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**)*, Vancouver, Canada,
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 Conference on Computer Vision and Pattern Recognition (**CVPR**)*, Seattle,
USA, 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), Addis Ababa, Ethiopia, 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), Vancouver, Canada, 2019

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

Towards Robust Detection of Adversarial Examples (**Spotlight**)
Tianyu Pang, Chao Du, **Yinpeng Dong**, and Jun Zhu
Advances in Neural Information Processing Systems (NeurIPS), Montreal, Canada, 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), Salt Lake City, USA, 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), Salt Lake City, USA, 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), Salt Lake City, USA, 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), London, UK, 2017

Forecast Plausible Paths in Crowd Scenes

Hang Su, Jun Zhu, **Yinpeng Dong**, and Bo Zhang

International Joint Conference on Artificial Intelligence (IJCAI), Melbourne, Australia, 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), Honolulu, Hawaii, USA, 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), Amsterdam, the Netherlands, 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), New York, USA, 2016

**Preprints &
Workshops**

Adversarial Vision Challenge

Wieland Brendel, Jonas Rauber, Alexey Kurakin, Nicolas Papernot, Behar Veliki, Sharada P. Mohanty, Florian Laurent, Marcel Salath, 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

ByteDance Scholars Program

2020.11

Tsinghua-HUAWEI Scholarship

2020.10

	Baidu Fellowship	2020.01
	‘84’ Future Innovation Scholarship	2019.12
	Microsoft Research Asia (MSRA) Fellowship	2019.11
	China National Scholarship	2019.10
	VALSE Annual Outstanding Student Paper Award	2019.04
	CCF-CV Academic Emerging Award	2018.11
	China National Scholarship	2018.10
	Tsinghua University Future PhD Fellowship	2017.09
Challenges	The 1st palce in GeekPwn DeepFake competition (Shanghai)	2020.10
	The 1st palces in GeekPwn CAAD CTF and Adversarial Patch competitions (Shanghai)	2019.10
	The 2nd place in the Untargeted Attack track of NeurIPS 2018 Adversarial Vision Challenge	2018.11
	The 2nd places in Targeted Attack track, Defense track, and the 3rd place in Non-targeted Attack track of GeekPwn CAAD competition	2018.9
	The 1st palce in GeekPwn CAAD CTF competition (Las Vegas)	2018.8
	The 1st places in NeurIPS 2017 Adversarial Attacks and Defenses	2017.10
	The 2nd place in KDDCUP 2016	2016.7
Services	Reviewer for:	
	TIP 2019, 2020	
	TPAMI 2019, 2020	
	NeurIPS 2016, 2019, 2020	
	ECCV 2020	
	IJCAI 2019, 2020	
	CVPR 2019, 2020, 2021	
	AAAI 2019, 2020, 2021	
	ICLR 2020, 2021	
	ICCV 2019	
	ICML 2019	
	UAI 2016	
Teaching	2019 Spring, Head TA in <i>Statistical Machine Learning</i> , instructed by Prof. Jun Zhu	