Zinan Lin

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scholar.google.com/citations?user=67nE-wQ_g_cC
github.com/fjxmlzn

Education

Carnegie Mellon University **Pittsburgh, PA, USA**
Ph.D. Candidate, Department of Electrical and Computer Engineering *2017–Present*
Advisors: Giulia Fanti and Vyas Sekar
Grade: 4.0/4.0 (10 courses, all with 4.0/4.0)

Tsinghua University **Beijing, China**
Bachelor of Engineering, Department of Electronic Engineering *2013–2017*
Grade: 92/100. Rank: 5/195

Honors and Awards

Top Reviewers in ICML 2020 *2020*
Cylab Presidential Fellowship, granted by Carnegie Mellon University *2020*
Siemens FutureMakers Fellowship, granted by Siemens *2019*
Best Reviewers (Top 400) in NeurIPS 2019, https://nips.cc/Conferences/2019/Reviewers *2019*
NeurIPS Spotlight, with Kiran Thekumparampil, Ashish Khetan, and Sewoong Oh *2018*
Presidential Fellowship, granted by Carnegie Mellon University *2017*
Carnegie Institute of Technology Dean's Fellow, granted by Carnegie Mellon University *2017*
Outstanding Bachelor Thesis, granted by Tsinghua University *2017*
Meritorious Winner, COMAP's Mathematical Contest in Modeling *2015, 2016, 2017*
National Scholarship, granted by the government of China *2014, 2015, 2016*
The First Prize, National Physics Contest for College Student *2014*
The Second Prize, National Mathematic Contest in Beijing Province *2014*

Experience

Google (Research Intern) **Mountain View, CA, USA**
Host: Yundi Qian *May 2020–Aug. 2020*
Topic: Compiler Optimizations with Reinforcement Learning

Carnegie Mellon University (Graduate Research Assistant) **Pittsburgh, PA, USA**
Advisors: Giulia Fanti, Vyas Sekar, Sewoong Oh *Sep. 2017–Present*
Topic: Generative Adversarial Networks

Tsinghua University (Research Assistant) **Beijing, China**
Advisor: Yongfeng Huang *Dec. 2016–Jun. 2017*
Topic: Fast Steganalysis of VoIP Streams Using Recurrent Neural Network (Bachelor Thesis)

University of California, Santa Barbara (Research Assistant) **Santa Barbara, CA, USA**
Advisor: Ben Zhao *Jun. 2016–Sep. 2016*
Topic: Large Scale Automatic Sybil Attacks and Vulnerability Measurement on Mobile Services

Microsoft Research Asia (Research Intern) **Beijing, China**
Managers: Fei Gao, Taifeng Wang *Mar. 2017–Jun. 2017*
- Performed a large-scale empirical study of optimization methods on various benchmark datasets.

Luogu Website (Cofounder and Developer) **China**
www.luogu.org *2013–Present*
- One of the biggest online judges in China.

Skills

Programming Languages

C, C++, Python, Java, (Visual) Basic, Pascal, Haskell, MATLAB, Mathematica, PHP, JavaScript, HTML, CSS, SQL, Verilog, Assembly, bash, shell, LaTeX, etc.

Machine Learning Frameworks

TensorFlow, PyTorch, Theano, Keras, Blocks, CNTK, etc.

Teaching Assistant

CMU 18752: Estimation, Detection and Learning **Pittsburgh, PA, USA**
Instructor: Rohit Negi *Spring 2020*

Publications

[1] **Zinan Lin**, Alankar Jain, Chen Wang, Giulia Fanti, and Vyas Sekar. "Using GANs for Sharing Networked Timeseries Data: Challenges, Initial Promise, and Open Questions". In: *Proceedings of the Internet Measurement Conference* ***(IMC)*** (2020).

[2] **Zinan Lin**, Kiran Koshy Thekumparampil, Giulia Fanti, and Sewoong Oh. "InfoGAN-CR and ModelCentrality: Self-supervised Model Training and Selection for Disentangling GANs". In: *Proceedings of Machine Learning and Systems* ***(ICML)***. 2020, pp. 7775–7786.

[3] **Zinan Lin**, Ashish Khetan, Giulia Fanti, and Sewoong Oh. "PacGAN: The Power of Two Samples in Generative Adversarial Networks". In: *IEEE Journal on Selected Areas in Information Theory* 1.1 (2020), pp. 324–335.

[4] **Zinan Lin**, Vyas Sekar, and Giulia Fanti. "Why Spectral Normalization Stabilizes GANs: Analysis and Improvements". In: *arXiv e-prints*. 2020.

[5] **Zinan Lin**, Soo-Jin Moon, Carolina M. Zarate, Ritika Mulagalapalli, Sekar Kulandaivel, Giulia Fanti, and Vyas Sekar. "Towards Oblivious Network Analysis using Generative Adversarial Networks".

In: *Proceedings of the 18th ACM Workshop on Hot Topics in Networks* ***(HotNets)***. ACM. 2019. URL: https://dl.acm.org/citation.cfm?id=3365854.

[6] **Zinan Lin**, Ashish Khetan, Giulia Fanti, and Sewoong Oh. "PacGAN: The Power of Two Samples in Generative Adversarial Networks". In: *Advances in Neural Information Processing Systems* ***(NeurIPS)***. 2018, pp. 1498–1507. URL: http://papers.nips.cc/paper/7423-pacgan-the-power-of-two-samples-in-generative-adversarial-networks.

[7] Kiran K Thekumparampil, Ashish Khetan, **Zinan Lin**, and Sewoong Oh. "Robustness of Conditional GANs to Noisy Labels". In: *Advances in Neural Information Processing Systems* ***(NeurIPS)***. 2018, pp. 10271–10282. URL: http://papers.nips.cc/paper/8229-robustness-of-conditional-gans-to-noisy-labels.

[8] **Zinan Lin**, Yongfeng Huang, and Jilong Wang. "RNN-SM: Fast Steganalysis of VoIP Streams Using Recurrent Neural Network". In: *IEEE Transactions on Information Forensics and Security* 13.7 (July 2018), pp. 1854–1868. ISSN: 1556-6013. DOI: 10.1109/TIFS.2018.2806741. URL: http://ieeexplore.ieee.org/document/8292900/.