

# Zinan Lin

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🔍 scholar.google.com/citations?user=67nE-wQ\_g\_cC  
📄 github.com/fjxmlzn

## Education

### Carnegie Mellon University

*Ph.D. Candidate, Department of Electrical and Computer Engineering*

Advisors: Giulia Fanti and Vyas Sekar

Grade: 4.0/4.0

**Pittsburgh, PA, USA**

*2017–Present*

### Tsinghua University

*Bachelor of Engineering, Department of Electronic Engineering*

Grade: 92/100. Rank: 5/195

**Beijing, China**

*2013–2017*

## Honors and Awards

**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

### Carnegie Mellon University (Graduate Research Assistant)

Advisors: Giulia Fanti, Vyas Sekar, Sewoong Oh

Topic: Generative Adversarial Networks

**Pittsburgh, PA, USA**

*Sep. 2017–Present*

### Tsinghua University (Research Assistant)

Advisor: Yongfeng Huang

Topic: Fast Steganalysis of VoIP Streams Using Recurrent Neural Network (Bachelor Thesis)

**Beijing, China**

*Dec. 2016–Jun. 2017*

### University of California, Santa Barbara (Research Assistant)

Advisor: Ben Zhao

Topic: Large Scale Automatic Sybil Attacks and Vulnerability Measurement on Mobile Services

**Santa Barbara, CA, USA**

*Jun. 2016–Sep. 2016*

## Microsoft Research Asia (Research Intern)

Managers: Fei Gao, Taifeng Wang

Beijing, China

Mar. 2017–Jun. 2017

- o Performed a large-scale empirical study of optimization methods on various benchmark datasets.

## Luogu Website (Cofounder and Developer)

[www.luogu.org](http://www.luogu.org)

China

2013–Present

- o One of the biggest online judges in China.

## Skills

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### Programming Languages.....

C, C++, Python, Java, (Visual) Basic, Pascal, Haskell, MATLAB, Mathematica, PHP, JavaScript, HTML, CSS, SQL, Verilog, Assembly, bash, shell, L<sup>A</sup>T<sub>E</sub>X, etc.

### Machine Learning Frameworks.....

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

## Publications

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- [1] **Zinan Lin**, Soo-Jin Moon, Carolina M. Zarate, Ritika Mulagalapalli, Sekar Kulandaivel, Giulia Fanti, and Vyas Sekar. “Towards a Roadmap for Zero-Knowledge Network Analysis using Generative Adversarial Networks”. In: *Proceedings of the 18th ACM Workshop on Hot Topics in Networks (HotNets)*. ACM. 2019.
- [2] **Zinan Lin**, Alankar Jain, Chen Wang, Giulia Fanti, and Vyas Sekar. “Generating High-fidelity, Synthetic Time Series Datasets with DoppelGANger”. In: *arXiv preprint arXiv:1909.13403* (2019).
- [3] **Zinan Lin**, Kiran Koshy Thekumparampil, Giulia Fanti, and Sewoong Oh. “InfoGAN-CR: Disentangling Generative Adversarial Networks with Contrastive Regularizers”. In: *arXiv preprint arXiv:1906.06034* (2019).
- [4] **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.
- [5] 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.
- [6] **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.