

# Jiameng Pu

*Ph.D. Student*

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📄 <https://jmpu.github.io/>

## Education

- 2017–Present **Ph.D. in Computer Science**, expected 2022.  
Virginia Polytechnic Institute and State University, Blacksburg, VA, United States.  
Research Interests: Data-driven security, machine learning.  
Advisor: Dr. Bimal Viswanath
- 2013–2017 **B. Eng in Computer Science**.  
Wuhan University, Wuhan, China

## Research Experiences

- 2018–present **Graduate Research Assistant**.  
Department of Computer Science, Virginia Tech, Blacksburg, VA, United States.  
Research topic: Security and machine learning; Defending against threats posed by advances in ML; Using ML for better security.
- 2017–2018 **Graduate Research Assistant**.  
Biocompleixty Institute, Virginia Tech, Blacksburg, VA, United States  
Research topic: Understanding information propagation in complex networks using deep learning.
- 2016 **Data Science Intern**.  
IBM China Development Labs, Wuhan, China  
Research topic: Building machine learning tools for quality assessment in business scenarios.
- 2015–2016 **Undergraduate Research Assistant**.  
State Key Lab of Software Engineering, Wuhan University, Wuhan, China  
Research topic: Data clustering algorithms using matrix approximations.

## Honors & Awards

- 2020 Visa Research Scholarship, awarded by IEEE S&P'20.
- 2019 Student Travel Grant, awarded by NDSS'19.
- 2014, 2015 National Endeavor Scholarships (given to top 5% students), awarded by Chinese Ministry of Education.

## Publications

- WWW'21 **A First Look at Deepfake Videos in the Wild: Analysis and Detection. (To appear)**  
Jiameng Pu\*, Neal Mangaokar\*, Lauren Kelly, Parantapa Bhattacharya, Kavya Sundaram, Mobin Javed, Bolun Wang, and Bimal Viswanath.  
WWW, Online, April 2021.

- USENIX Security'21 **T-Miner: A Generative Approach to Defend Against Trojan Attacks on Deep Text Models. (To appear)**  
Ahmadreza Azizi, Ibrahim Asadullah Tahmid, Asim Waheed, Neal Mangaokar, Jiameng Pu, Mobin Javed, Chandan K. Reddy, and Bimal Viswanath.  
USENIX, Online, August 2021.
- ACSAC'20 **NoiseScope: Spotting Deepfake Images in a Blind Setting.**  
Jiameng Pu, Neal Mangaokar, Bolun Wang, Chandan Reddy, Bimal Viswanath.  
ACSAC, Online, December 2020.
- IEEE EuroS&P'20 **Jekyll: Attacking Medical Image Diagnostics Using Neural Translation.**  
Neal Mangaokar, Jiameng Pu, Parantapa Bhattacharyam, Chandan Reddy, and Bimal Viswanath.  
Euro S&P, Online, September 2020.
- IEEE S&P'20 **Throwing Darts in the Dark? Detecting Bots with Limited Data using Neural Data Augmentation.**  
Steve T.K. Jan, Qingying Hao, Tianrui Hu, Jiameng Pu, Sonal Oswal, Gang Wang, and Bimal Viswanath.  
IEEE S&P, Online, May 2020.
- ICPR'16 **Multiview Clustering Based on Robust and Regularized Matrix Approximation.**  
Jiameng Pu, Qian Zhang, Lefei Zhang, and Bo Du.  
ICPR, Cancun, Mexico, July 2016.

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## Talks

- 2020 **Investigating Deepfakes: When Seeing is No Longer Believing.**  
◦ Virginia Tech, Department of Computer Science, January 2020
- ACSAC'20 **NoiseScope: Spotting Deepfake Images in a Blind Setting.**  
◦ Online, December 2020

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## Project Code

- ACSAC'20 **NoiseScope: Spotting Deepfake Images in a Blind Setting.**  
◦ <https://github.com/jmpu/NoiseScope>

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## Conference Experiences

- ACSAC'20 **Annual Computer Security Applications Conference.**  
Online, December 2020
- CCS'20 **The ACM Conference on Computer and Communications Security.**  
Online, November 2020
- Euro S&P'20 **IEEE European Symposium on Security and Privacy.**  
Online, September 2020
- USENIX'20 **USENIX Security Symposium.**  
Online, August 2020
- IEEE S&P'20 **IEEE Symposium on Security and Privacy.**  
Online, May 2020
- CyberW 2020 **Workshop for Women in Cybersecurity Research.**  
Online, March 2020

NDSS'19 **Network and Distributed System Security Symposium.**  
San Diego, CA, United States, February 2019

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## Skills

Languages Python, Java, MATLAB, Javascript, C++, C, MySQL, Bash.  
Frameworks Tensorflow, PyTorch, Hugging Face, DL models (Transformers, CNNs, LSTMs, RNNs, etc.)  
Tools Git, LaTeX, Unix systems.