

# Steve T.K. Jan

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## Education

- **Visiting Ph.D. in Computer Science** **University of Illinois at Urbana-Champaign**  
○ Advisor: Prof. Gang Wang Dec 2019 – Present
- **Ph.D. in Computer Science** **Virginia Tech**  
○ Advisors: Prof. Gang Wang and Bimal Viswanath Aug 2014 – Present (On leave: 2015-16)
- **M.S. in Computer Science** **National Taiwan University**  
○ Advisor: Prof. Hsuan-Tien Lin Sep. 2008 – Jun. 2010
- **B.S. in Computer Science** **Chung Yuan Christian University**  
○ Advisor: Prof. Bin-Shian Jung Sep. 2004 – Jun. 2008

## Experience

- University of Illinois at Urbana-Champaign, Visiting Scholar Dec 2019 - Present
- MIT-IBM Watson AI Lab, Research Intern May 2019 - Aug. 2019
- Intel, Software Engineering Intern May 2018 - Aug. 2018
- Virginia Tech, Research Assistant Apr. 2014 – Present
- Academia Sinica, Full-time Research Assistant Apr. 2011 – May 2014

## Publications

Google Scholar ID: [1rTlcOQAAAAJ](https://scholar.google.com/citations?hl=en&user=1rTlcOQAAAAJ)

- [1] **Steve T.K. Jan**, Qingying Hao, Tianrui Hu, Jiameng Pu, Sonal Oswal, Gang Wang, Bimal Viswanath, "Throwing darts in the dark? Detecting bots with limited data using neural data augmentation," in *Proceedings of The 41st IEEE Symposium on Security and Privacy (IEEE SP)*, 2020. [Online]. Available: <http://people.cs.vt.edu/tekang/papers/sp20-odds.pdf>.
- [2] **Steve T.K. Jan**, Vatche Ishakian, Vinod Muthusamy, "Ai trust in business processes: The need for process-aware explanations," in *Proceedings of Innovative Applications of Artificial Intelligence (IAAI)*, 2020. [Online]. Available: <http://people.cs.vt.edu/tekang/papers/IAAI20.pdf>.
- [3] **Steve T.K. Jan**, Joseph Messou, Yen-Chen Lin, Jia-Bin Huang, Gang Wang, "Connecting the digital and physical world: Improving the robustness of adversarial attacks," in *Proceedings of AAAI Conference on Artificial Intelligence (AAAI)*, 2019. [Online]. Available: <http://people.cs.vt.edu/tekang/papers/AAAI19.pdf>.
- [4] **Steve T.K. Jan**, Chun Wang, Qing Zhang, Gang Wang, "Analyzing payment-driven targeted Q&A systems," in *ACM Transactions on Social Computing (TSC)*, 2018. [Online]. Available: [http://people.cs.vt.edu/tekang/papers/TSC\\_2018.pdf](http://people.cs.vt.edu/tekang/papers/TSC_2018.pdf).
- [5] Ke Tien, **Steve T.K. Jan**, Hang Hu, Danfeng Yao, Gang Wang, "Needle in a haystack: Tracking down elite phishing Domains in the wild," in *Proceedings of ACM Internet Measurement Conference (IMC)*, 2018. [Online]. Available: <http://people.cs.vt.edu/tekang/papers/imc18.pdf>.
- [6] Chun Wang, **Steve T.K. Jan**, Hang Hu, Douglas Bossart, Gang Wang, "The next domino to fall: Empirical analysis of user passwords across online services," in *Proceedings of The ACM Conference on Data and Applications Security and Privacy (CODASPY)*, 2018. [Online]. Available: <http://people.cs.vt.edu/tekang/papers/pass.pdf>.
- [7] **Steve T.K. Jan**, Chun Wang, Qing Zhang, Gang Wang, "Pay-per-question: Towards targeted Q&A with payments," in *Proceedings of ACM International Conference on Supporting Group Work (GROUP)*, 2018. [Online]. Available: <http://people.cs.vt.edu/tekang/papers/qa18.pdf>.

- [8] Rupinder Paul Khandpur, Taoran Ji, **Steve T.K. Jan**, Gang Wang, Chang-Tien Lu, Naren Ramakrishnan, "Crowdsourcing cybersecurity: Cyber attack detection using social media," in *Proceedings of Conference on Information and Knowledge Management (CIKM)*, 2017. [Online]. Available: <http://people.cs.vt.edu/tekang/papers/crowdsec17.pdf>.
- [9] Yao Zhang, Bijaya Adhikari, **Steve T.K. Jan**, Aditya Prakash, "Meike: Influence-based communities in networkss," in *Proceedings of SIAM International Conference on Data Mining (SDM)*, 2017. [Online]. Available: <http://people.cs.vt.edu/tekang/papers/meike-sdm17.pdf>.
- [10] Ahsanur Rahman, **Steve T.K. Jan**, Hyunju Kim, Aditya Prakash, T. M. Murali, "Unstable communities in network ensembles," in *Proceedings of SIAM International Conference on Data Mining (SDM)*, 2016. [Online]. Available: <http://people.cs.vt.edu/tekang/papers/ucs-sdm16.pdf>.
- [11] Ahsanur Rahmana, **Steve T.K. Jan**, Hyunju Kim, Aditya Prakash, T. M. Murali, "Mining unstable communities from network ensembles," in *Proceedings of International Conference on Data Mining Workshop (ICDM Workshop)*, 2016. [Online]. Available: <http://people.cs.vt.edu/tekang/papers/ucs-sdm16.pdf>.
- [12] **Steve T.K. Jan**, Da-Wei Wang, Chi-Hung Lin, Hsuan-Tien Lin, "A simple methodology of soft cost-sensitive classification," in *Proceedings of Knowledge Discovery and Data Mining (KDD)*, 2012. [Online]. Available: <http://people.cs.vt.edu/tekang/papers/kdd12softcost.pdf>.
- [13] Ken-Yi Lin, **Steve T.K. Jan**, Hsuan-Tien Lin, "Data selection techniques for large-scale ranksvm," in *Proceedings of Technologies and Applications of Artificial Intelligence (TAAI)*, 2013. [Online]. Available: <http://people.cs.vt.edu/tekang/papers/aai13prune.pdf>.
- [14] **Steve T.K. Jan**, Hsuan-Tien Lin, Da-Wei Wang, "Cost-sensitive classification on pathogen species of bacterial meningitis by surface enhanced raman scattering," in *Proceedings of IEEE International Conference on Bioinformatics and Biomedicine (BIBM)*, 2011. [Online]. Available: <http://people.cs.vt.edu/tekang/papers/bibm11.pdf>.

## Teaching Experience

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○ Intro to Programming in Java (VT CS1054), TA	S2017
○ Intro to Programming (VT CS1054), TA	F2016
○ Data Structures and Algorithms (VT CS3014), TA	S2015
○ Data Structures and Algorithms (VT CS3014), TA	F2014
○ Machine Learning (NTU CSIE), TA	S2009

## Honors & Awards

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○ Student Registration Award, IEEE Symposium on Security and Privacy	2020
○ Fellow Employee Recognition Reward, Intel	2018
○ Excellent TA Award, National Taiwan University	2010

## Skills

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Languages	C, C++, Java, Make, Python
Frameworks	NumPy, Pandas, PyTorch, SciPy, TensorFlow
Systems	Linux, OSX