Peng Jia

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Education

- **Xi'an Jiaotong University** — Xi'an, Shaanxi, China
  *Ph.D. Candidate of Control Science and Engineering (Supervised by **Pinghui Wang**)* — *2016 – present*
- **Xi'an Jiaotong University** — Xi'an, Shaanxi, China
  B.Eng. of Automation Science and Technology — *2012 – 2016*

Awards and Honors

- National College Student Information Security Contest, 3rd Prize – 2016
- "Challenge Cup" National Undergraduate Curricular Academic Science and Technology, 2nd Prize – 2015
- China National College Student "Innovation, Originality and Entrepreneurship" Challenge, 3rd Prize in Shaanxi – 2015
- Entrance Schorlarship – 2016
- "Si Yuan" Schorlarship – 2013

Research Interests

- Graph Mining
- Large Scale Graph Analysis
- Online Social Network Measurement
- High Speed Traffic Analysis
- Sketch-based Streaming Algorithms

Publications

- **Peng Jia**, Pinghui Wang, Jing Tao, Xiaohong Guan. "A Fast Sketch Method for Mining User Similarities over Fully Dynamic Graph Streams". IEEE International Conference on Data Engineering **(ICDE)** 2019, 4-page short paper.
- Pinghui Wang, **Peng Jia**, Yiyan Qi, Sun Yu, Jing Tao, Xiaohong Guan. "REPT: A Streaming Algorithm of Approximating Global and Local Triangle Counts in Parallel". IEEE International Conference on Data Engineering **(ICDE)** 2019.
- Pinghui Wang, **Peng Jia**, Xiangliang Zhang, Jing Tao, Xiaohong Guan, Don Towsley. "Utilizing Dynamic Properties of Virtual Sketches to Accurately Estimate User Cardinalities over Time". IEEE International Conference on Data Engineering **(ICDE)** 2019.
- Pinghui Wang, **Peng Jia**, Jing Tao, Xiaohong Guan. "Detecting a Variety of Long-Term Stealthy User Behaviors on High Speed Links". IEEE Transactions on Knowledge and Data Engineering **(TKDE)** 2018.
- Pinghui Wang, **Peng Jia**, Jing Tao, and Xiaohong Guan. "Mining Long-Term Stealthy User Behaviors on High Speed Links". IEEE International Conference on Computer Communications **(INFOCOM)** 2018.

Projects

- **Sandbox of Dynamic Analysis for Android Application Security** – Redesigned Android framework to monitor application behaviors on Framework during runtime.
- **Detection of Android Root Behaviors Based on Kernel** – Redesigned framework to monitor application behaviors on Linux kernel and detect Android Root Behaviors.

Programming Skills

- **Languages**: Python, C++, Java, Javascript, SQL
- **Technologies**: Web Development, Android Application Development