Abbas Razaghpanah, PhD

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International Computer Science Institute
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Research Interests Computer Networks, Network Measurement, Privacy, Security

Education

- PhD in Computer Science   *2013 - 2019*
  Stony Brook University (SUNY Stony Brook)
  Co-Advisers: Phillipa Gill, PhD and Narseo Vallina-Rodriguez, PhD

- M.Sc. in Computer Science   *2013 - 2015*
  Stony Brook University (SUNY Stony Brook)
  Adviser: Phillipa Gill, PhD

- B.Sc. in Computer Science   *2008 - 2013*
  Amirkabir University of Technology (Tehran Polytechnic)

Awards

- Caspar Bowden PET Award from the Privacy Enhancing Technologies Symposium   *July 2020*
- Best Practical Paper Award at the 41st IEEE Symposium on Security and Privacy   *May 2020*
- French Data Protection Authority (CNIL) and Inria Privacy Protection Award winner *Jan. 2020*
- Emilio Aced Personal Data Protection Research Prize
  from the Spanish Data Protection Agency (AEPD)   *Jan. 2020*
- Distinguished Paper Award winner at ACM IMC 2018   *Nov. 2018*
- Awarded Information Controls Fellowship offered by OTF and the Citizen Lab   *Nov. 2014*
- Best poster award in Stony Brook Technology Day poster competition   *Sep. 2014*
- Runner up in the ACM Student Research Competition at SIGCOMM 2014   *Aug. 2014*

Service

- **ACM CCS**, Program Committee Member   *2021*
- **PoPETS**, Program Committee Member   *2020, 2021, 2022*

Publications

Conference Papers • "A Comparative Analysis of Certificate Pinning in Android & iOS"
Amogh Pradeep, Muhammad Talha Paracha, Protick Bhowmick, Ali Davanian, **Abbas Razaghpanah**, Taejoong Chung, Martina Lindorfer, Narseo Vallina-Rodriguez, Dave Levin, and David Choffnes
Internet Measurement Conference (ACM IMC). Nice, France.   *Oct. 2022*

• "Apps, Trackers, Privacy, and Regulators: A Global Study of the Mobile Tracking Ecosystem"
Abbas Razaghpanah, Rishab Nithyanand, Narseo Vallina-Rodriguez, Srikanth Sundaresan, Mark Allman, Christian Kreibich, and Phillipa Gill
The Network and Distributed System Security Symposium (NDSS). San Diego, CA.   *Feb. 2018*

• "Studying TLS Usage in Android Apps"
Abbas Razaghpanah, Arian Akhavan Niaki, Narseo Vallina-Rodriguez, Srikanth Sundaresan, Johanna Amann, and Phillipa Gill
Conference on emerging Networking EXperiments and Technologies (ACM CoNEXT). Seoul/Incheon, South Korea.   *Dec. 2017*

• "Coming of Age: A Longitudinal Study of TLS Deployment"

Platon Kotzias, **Abbas Razaghpanah**, Johanna Amann, Kenneth G. Paterson, Narseo Vallina-Rodriguez, and Juan Caballero
Internet Measurement Conference (ACM IMC). Boston, MA. *Nov. 2018* (**Distinguished Paper**)

- "liberate (n): A library for exposing (traffic-classification) rules and avoiding them efficiently"
Fangfan Li, **Abbas Razaghpanah**, Arash Molavi Kakhki, Arian Akhavan Niaki, David Choffnes, Phillipa Gill, and Alan Mislove
Internet Measurement Conference (ACM IMC). London, UK. *Nov. 2017* (Accept rate 26%)

- "Identifying Traffic Differentiation in Mobile Networks"
Arash Molavi Kakhki, **Abbas Razaghpanah**, Hyungjoon Koo, Anke Li, Rajeshkumar Golani, David Choffnes, Phillipa Gill, and Alan Mislove
Internet Measurement Conference (ACM IMC). Tokyo, Japan. *Oct. 2015* (Accept rate 26%)

- "Internet Outages, the Eyewitness Accounts: Analysis of the Outages Mailing List"
Ritwik Banerjee, **Abbas Razaghpanah**, Luis Chiang, Akassh Mishra, Vyas Sekar, Yejin Choi, and Phillipa Gill
In Proc. of the *Passive and Active Measurement Conference (PAM)*. New York, USA. *Mar. 2015* (Accept rate 27%)

- "An Analysis of Pre-installed Android Software"
Julien Gamba, Mohammed Rashed, **Abbas Razaghpanah**, Juan Tapiador, Narseo Vallina-Rodriguez
IEEE Symposium on Security and Privacy (Oakland). San Francisco, CA. *May 2020*

- ""Won't Somebody Think of the Children" Privacy Analysis at Scale: A Case Study With COPPA"
Irwin Reyes, Primal Wijesekera, Joel Reardon, Amit Elazari, **Abbas Razaghpanah**, Narseo Vallina Rodriguez, and Serge Egelman
PETS. Barcelona, Spain. *July. 2018*

- "The Cloud that Runs the Mobile Internet"
Foivos Michelinakis, Hossein Doroud, **Abbas Razaghpanah**, Andra Lutu, Narseo Vallina-Rodriguez, Phillipa Gill, and Joerg Widmer
IEEE INFOCOM. Honolulu, HI. *Apr. 2018*

- "A Churn for the Better: Localizing Censorship using Network-level Path Churn and Network Tomography"
Shinyoung Cho, Rishab Nithyanand, **Abbas Razaghpanah**, and Phillipa Gill
Conference on emerging Networking EXperiments and Technologies (ACM CoNEXT). Seoul/Incheon, South Korea. *Dec. 2017*

- "ICLab: A Global, Longitudinal Internet Censorship Measurement Platform"
Arian Akhavan Niaki, Shinyoung Cho, Zachary Weinberg, Nguyen Phong Hoang, **Abbas Razaghpanah**, Nicolas Christin, and Phillipa Gill
IEEE Symposium on Security and Privacy (Oakland). San Francisco, CA. *May 2020*

Journal Publications • "Meddle: Enabling Transparency and Control for Mobile Internet Traffic"
Ashwin Rao, Arash Molavi Kakhki, **Abbas Razaghpanah**, Anke Li, David Choffnes, Arnaud Legout, Alan Mislove, and Phillipa Gill
Journal of Technology Science (JoTS). *Oct. 2015*

Selected Technical Reports • "Haystack: In Situ Mobile Traffic Analysis in User Space"   *Oct. 2015*
Abbas Razaghpanah, Narseo Vallina-Rodriguez, Srikanth Sundaresan, Christian Kreibich, Phillipa Gill, Mark Allman, and Vern Paxson

• "Exploring the Design Space of Longitudinal Censorship Measurement Platforms"   *Jun. 2016*
Abbas Razaghpanah, Anke Li, Arturo Filastò, Rishab Nithyanand, Vasilis Ververis, Will Scott, and Phillipa Gill

Workshop Publications • ""Is Our Children's Apps Learning?" Automatically Detecting COPPA Violations"
Irwin Reyes, Primal Wijesekera, **Abbas Razaghpanah**, Joel Reardon, Narseo Vallina-Rodriguez, Serge Egelman, and Christian Kreibich
Workshop on Technology and Consumer Protection (ConPro)   *March. 2017*

Posters • "A client-side analysis of TLS usage in mobile apps"
Abbas Razaghpanah, Narseo Vallina-Rodriguez, and Phillipa Gill
In *USENIX Security Poster Session.* Austin, Texas.   *Aug. 2016*

• "Haystack: *In Situ* Mobile Traffic Analysis in User Space"
Abbas Razaghpanah, Narseo Vallina-Rodriguez, Srikanth Sundaresan, Christian Kreibich, Phillipa Gill, Mark Allman, and Vern Paxson
In *ACM HotMobile Poster & Demo Session.* St. Augustine, Florida.   *Feb. 2016*

• "Identifying Traffic Differentiation on Cellular Data Networks"
Arash Molavi Kakhki, **Abbas Razaghpanah**, Rajesh Golani, David Choffnes, Phillipa Gill, and Alan Mislove
In *ACM SIGCOMM Poster & Demo Session.* Chicago, Illinois.   *Aug. 2014*
Runner up in the *ACM Student Research Competition at SIGCOMM 2014*

Professional Experience

• **Research Intern**
International Computer Science Institute (ICSI) at UC Berkeley   *Summer 2015, 2017, and 2018*
I worked on developing a mobile privacy measurement application with Narseo Vallina-Rodriguez, Srikanth Sundaresan, and Christian Kreibich under the supervision of Vern Paxson. Later I worked with my collaborators at ICSI to analyze data collected by our mobile measurement platform to better understand the mobile ecosystem from the edge, resulting in a number of paper submissions.

• **Seasonal OTF Research Fellow**
The Citizen Lab at University of Toronto   *Spring 2015*
Worked on ICLab, a platform to measure Internet interference under supervision of Ronald Dibert.