

# Fangfan Li

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## EDUCATION

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- **Northeastern University** Boston, MA  
*Ph.D. Candidate in Computer Science (GPA: 3.71/4.0)* Aug 2015 - Expected May 2020
- **Duke University** Durham, NC  
*Master of Science in Electrical & Computer Engineering (GPA: 3.92/4.0)* Aug 2013 - Dec 2014
- **University of Electronic Science and Technology of China** Chengdu, China  
*Bachelor of Science in Electrical Engineering (GPA: 3.83/4.0)* Sep 2009 - June 2013

## SELECTED RESEARCH PROJECTS

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- **Wehe** Jun 2017 - Present
  - Developed the Wehe android/iOS mobile app for detecting net neutrality violations (i.e., traffic differentiation)
  - More than 100,000 users have downloaded Wehe, and conducted more than one million tests
  - Wehe detects traffic differentiation in 30 Internet Service Providers in 7 countries, and this work was covered by Bloomberg, Vice News, the Boston Globe, and others
  - Our findings have been used by the French national telecom regulator, the US FTC and FCC, US Senators, and numerous US state legislators
- **Liberate** Oct 2016 - June 2017
  - Performed an empirical measurement of network neutrality violations across six different networks
  - Designed an application-agnostic approach to identifying network neutrality violations and circumventions
- **Classifiers Unclassified** Jan 2016 - Aug 2016
  - Developed a general methodology for identifying the matching rules used by network traffic classifiers
  - This work helped testimony which was taken into consideration by the CRTC (Canadian Radio-television and Telecommunications Commission) in banning differential pricing that violates network neutrality in Canada
- **Binge On Under the Microscope** Oct 2015 - Apr 2016
  - Characterized how T-Mobile's Binge On program differentially impacts content providers and customers
  - This work was covered by BostInno, Consumer Affairs, TechDirt, Fierce Wireless, and others

## PUBLICATIONS

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- A Large-Scale Analysis of Deployed Traffic Differentiation Practices, **Fangfan Li** et al. In Proceedings of ACM SIGCOMM, Beijing, China, Aug. 2019
- *lib-erate* (n) : A library for exposing (traffic-classification) rules and avoiding them efficiently, **Fangfan Li** et al. In Proceedings of the ACM Internet Measurement Conference, London, UK, Nov. 2017
- Classifiers Unclassified: An Efficient Approach to Revealing IP Traffic Classification Rules, **Fangfan Li** et al. In Proceedings of the ACM Internet Measurement Conference, Santa Monica, CA, Nov. 2016
- Binge On Under the Microscope: Understanding T-Mobile's Zero-Rating Implementation, Arash Molavi Kakhki, **Fangfan Li** et al. In Proceedings of SIGCOMM Internet-QoE Workshop, Aug. 2016

## EXPERIENCE

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- **Facebook** Cambridge, MA  
*External Research Collaborator, Network Traffic Team* Spring 2020
- **Facebook** Seattle, WA  
*Software Engineer Intern, Network Traffic Team* Summer 2018, Summer 2019

## PROGRAMMING SKILLS

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- **Languages:** Python, C/C++, Java, HTML/CSS, SQL, R, JavaScript      **Technologies:** AWS, MatLab, Git