



Assistant Professor
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Research

Economics and Computation

- .Algorithmic Game Theory
- .Computational Fair Division
- .Auction Theory
- .Dynamic Processes
- .Complexity of Market Design
- .Learning Theory



Online markets
Cloud computing
Virtual currencies





Christina Garman

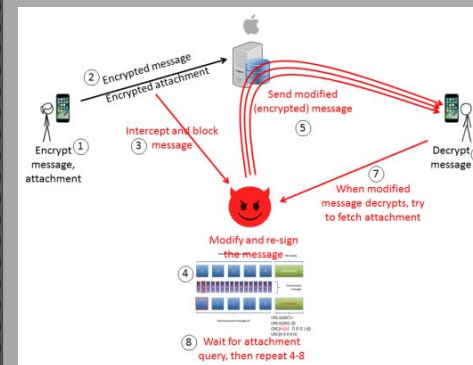
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Research Interests

Applied Cryptography, Security

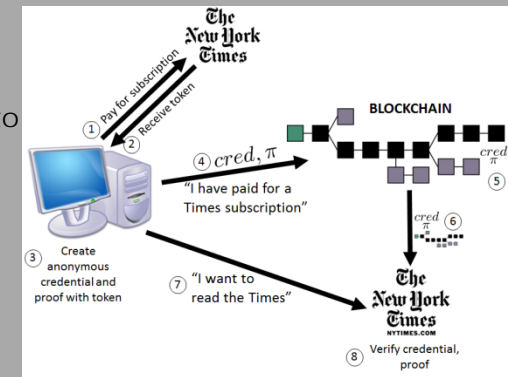
Securing deployed cryptographic systems

- Bridging the gap between cryptographic theory and cryptography in practice
- Evaluating the security of deployed protocols
- Creating tools to help develop secure cryptographic systems
- Building deployable cryptographic systems and protocols



Breaking (and fixing)
Apple's iMessage

Using blockchains to
enable new
applications and
increase
deployability



Application Domains

Secure Protocol Design
Cryptographic Analysis
Privacy
Cryptographic Implementation
Blockchains

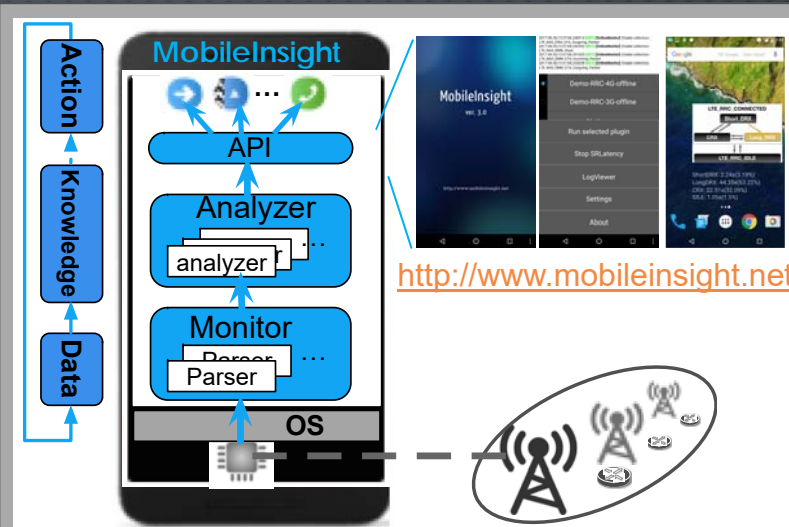


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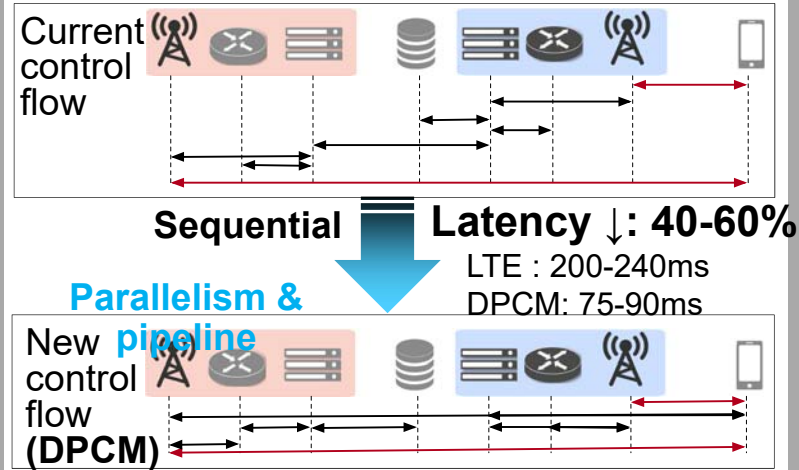
Research Interests

Mobile networking, systems and security

- Mobile network intelligence
- Network monitor and analytics
- Network protocol verification
- 5G applications and networks
- Attacks against mobile carriers network
- Privacy in mobile sensing
- Visible light communication and sensing



MobileInsight: monitor and analyze “black-box” network operations on smartphones



DPCM: Accelerate connectivity establishment and migration via distributed parallel control