

# Hongfa Ding

Boxue Building, Room 522-2, North Campus of Guizhou University, 2708 South Huaxi Ave., Huaxi District, Guiyang, Guizhou province, P.R.C. 550025  
hongfa.ding@foxmail.com <https://gufe-hfding.github.io/>

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## Professional Experience

<i>Research Assistant for Prof. Peng Changgen</i> Guizhou University, Guiyang, China	<i>2015.9-present</i>
<i>Lecturer</i> Guizhou University of Finance and Economics, Guiyang, China	<i>2013.7-2015.8</i>
<i>Research Assistant for Prof. Peng Changgen</i> Guizhou University, Guiyang, China	<i>2010.9-2015.7</i>

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## Education

PhD student visitor in Computer Science Co-advised by Prof. Yinzhi Cao Research interesting: Privacy protection Lehigh University, Bethlehem, USA	<i>2017.9-2018.9</i>
PhD student in Applied Mathematics Advised by Prof. Peng Changgen and Prof. Xiang Shuwen Research interesting: Privacy protection, Rational cryptographic protocol College of Mathematics and Statistics, Guizhou University, Guiyang, China	<i>2015.9-present</i>
Master in Software & Theory of Computer Advised by Prof. Peng Changgen Thesis: Study of Several Algorithms of Edwards Curves on Special Finite Fields College of Computer Science and Technology, Guizhou University, Guiyang, China	<i>2010.9-2013.7</i>
Bachelor in Information and Computation Science Department of Mathematics, Qiannan Normal College of Nationalities	<i>2006.9-2010.8</i>

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## Publications

### Papers:

- [1] **Ding Hongfa**, Peng Changgen, Tian Youliang and Xiang Shuwen. A risk adaptive access control model based on Markov for big data in the cloud, International Journal of High Performance Computing and Networking, 2019, 14(4):1
- [2] Peng Changgen, Tian Youliang, Liu Hai, **Ding Hongfa**. A Survey on the Intersection of Cryptography and Game Theory. Journal of Cryptologic Research, 2017, 4(01):1-15. (in Chinese).
- [3] Peng Changgen, **Ding Hongfa**, Zhu Yijie, Tian Youliang, Fu Zufeng. Information entropy models and privacy metrics methods for privacy protection. Ruan Jian Xue Bao/Journal of Software,

2016,27(8):1891–1903 (in Chinese).

- [4] **Ding Hongfa**, Jiang Xing, Meng qiuqing. A Research on High-efficiency Media Asset Management System for Colleges and Universities' TV Center (in Chinese). TV Technology, 2015, 14: 78-81.
- [5] **Ding Hongfa**, Peng Changgen, Yang Zhen, Zhang Xiaopei. Point Compression Schemes on Binary Edwards Curves (in Chinese). Journal of GuiZhou University (Natural science edition), 2012, 03: 55-58.
- [6] Yang Zhen, Peng Changgen, **Ding Hongfa**. A Disordered and Anonymous RFID Group Proof Scheme (in Chinese). Computer Engineering, 2012, 20: 85-88.

#### **Patents:**

- [1] Peng Changgen, Li Xuesong, Tian Youliang, Liu Shaobin, **Ding Hongfa**, An Authenticated Encryption based U Disk based on Fingerprint. CN201610193345.2, 2016-03-30 (in Chinese).
- [2] Peng Changgen, Ma Haifeng, Tian Youliang, **Ding Hongfa**. A Method of Encryption and Decryption over Ciphertext. CN201610177523.2, 2016-03-25 (in Chinese).
- [3] Peng Changgen, Ma Haifeng, Tian Youliang, **Ding Hongfa**. An Authenticated Encryption for Fingerprint based U Disk. CN201610140978.7, 2016-03-14 (in Chinese).
- [4] **Ding Hongfa**, Peng Changgen, Zhu Yijie. A Design Method and System of Scenic Spot Electronic Interpretation of the Location-based Service system. CN201520593708.2. 2016-02-10 (in Chinese).
- [5] **Ding Hongfa**, Peng Changgen, Zhu Yijie. A System of Scenic Spot Electronic Interpretation of the Location-based Service. CN201510482610.4. 2015-11-18 (in Chinese).
- [6] Peng Changgen, Yang Zhen, **Ding Hongfa**. A Dynamic Multiple Attributes and Multistage Authentication Method for Mobile Terminal (in Chinese). CN103107888B, 201310026660.2. 2013-05-15[2015-11-18].

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#### **Research Grants**

- Innovation Foundation for Graduate Student of Guizhou University under grant 2017068,
- Science and Technology Planning Project of Guizhou Province, China under grant NO.Gzuihou-Science-Contact 20161023.
- Philosophy and Social Sciences Planning Project of Guizhou Province, China under grant NO.16GZQN06.
- Youth Science and Technology Talents Growth Project of Guizhou Provincial Department of Education under grant NO. Guizhou-Education-Contact-KY-Word 2016169.
- The Teaching Quality and Teaching Reform Project of GUFU: Application Research on Curriculum Teaching Pattern Reform of Information Classes based on SPOC.
- Humanities and Social Sciences Research Project of Guizhou Provincial Education Department: Problems and Countermeasures of Government Data Opening and Sharing for Guizhou Province. (2015DXS03)
- Innovation Foundation for Graduate Student of Guizhou University: Fast Algorithms of Edwards Curve and Its Application in the Mobile Phone. (2010038)

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#### **Teaching**

- Spring, 2019 R & Its Application in Big data Analysis with Hadoop, Graduates
- Spring, 2019 Big Data Technology and Its Application, Undergraduates
- Fall, 2018 Advanced Office Application, Undergraduates
- Fall, 2016 Big Data Technology and Its Application, Undergraduates
- Spring, 2016 Cryptography and Secure Computation, Undergraduates
- Fall, 2015 Information Theory and Coding (Teaching Assistant), Undergraduates
- Fall, 2015 Database, Graduates
- Spring, 2015 Introduction to Big Data Technology, Undergraduates
- Fall, 2014 Information Security Technology, Undergraduates
- Spring, 2014 Technology and Management of Network, Undergraduates
- Fall, 2013 Information Security Technology (Teaching Assistant), Undergraduates

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## **Rewards**

- The second prize of the Scientific and Technological Advancement Reward of Guizhou Province (3/5, December, 2016)
  - The Outstanding Paper Award at the 19<sup>th</sup> Master's & Doctoral Students Forum of Guizhou University (June, 2016)
  - The Outstanding Reporter at the 10<sup>th</sup> Academic Forum of College of Computer Science and Technology, Guizhou University (June, 2012)
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