

CHENGHONG WANG

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EDUCATION

Ph.D. in Computer Science, **Duke University, Durham, N.C.** 8/2018-current
M.S. in Computer Science, **Syracuse University, Syracuse, N.Y.** 8/2015-5/2017
B.E. in Information Security, **Harbin Engineering University, Harbin** 9/2011-6/2015

EMPLOYMENT

Research Assistant, Department of Computer Science, **Duke University, Durham, N.C.** 8/2018-current
Visiting Research Scholar, Department of Physics, **Stanford University, Stanford, C.A.** 6/2018-8/2018
Research Scholar, DBMI, **University of San Diego, San Diego, C.A.** 10/2017-5/2018
Research Engineer, **Centromere Inc., San Diego, C.A.** 5/2017-10/2017

SELECTED AWARDS

H-4. **Student Travel Award**, PriML/NeurIPS 19 Conference 2019
H-3. **iDash Research Intern Scholarship**, University of San Diego 2016
H-2. **Outstanding Bachelor Thesis**, Harbin Engineering University 2015
H-1. **National College Student Research Award**, Ministry of Education of P.R. China 2015

PUBLICATIONS

Peer-reviewed Conference.

- C-4. Amrita Roy Chowdhury, **Chenghong Wang**, Xi He, Ashwin Machanavajjhala, Someth Jha, Crypte: Crypto-Assisted Differential Privacy on Untrusted Servers, *The 2020 International Conference on Management of Data (SIGMOD) 2020*.
- C-3. **Chenghong Wang***, Yichen Jiang*, Zhixuan Wu, Xin Du, Shuang Wang, "Privacy-preserving Biomedical Data Dissemination via a Hybrid Approach", *American Medical Informatics Association Annual Symposium (AMIA) 2018*.
- C-2. Priya Govindan, **Chenghong Wang**, Chumeng Xu, Hongyu Duan, Sucheta Soundarajan, The k-peak decomposition: Mapping the Global Structure of Graphs, *26th International World Wide Web Conference (WWW) 2017*.
- C-1. **Chenghong Wang***, Yichen Jiang*, Feng Chen, Xiaoqian Jiang, Noman Mohammed, Md M. Aziz, Md. Sadat, Shuang Wang, "SCOTCH: Secure Counting Of encryptEd genomiC Data using a Hybrid Approach", *American Medical Informatics Association Annual Symposium (AMIA) 2017*.

Peer-reviewed Workshop.

- W-1. Amrita Roy Chowdhury, **Chenghong Wang**, Xi He, Ashwin Machanavajjhala, Someth Jha, Crypte: Crypto-Assisted Differential Privacy on Untrusted Servers, *NeurIPS Privacy in Machine Learning Workshop (PriML) 2019*.

Journal.

- J-3. Long Zhang, Donghong Zhang, **Chenghong Wang**, Zhenyu Zhang, Jing Zhao, “ART4SQLi: The ART of SQL Injection Vulnerability Discovery”, *IEEE Transactions on Reliability* (TR) 2019
- J-2. Yichen Jiang*, Jenny Hamer*, **Chenghong Wang***, Xiaoqian Jiang, Miran Kim, Yongsoo Song, Yuhou Xia, Noman Mohammed, Md Nazmus Sadat, Shuang Wang, “SecureLR: Secure Logistic Regression Model via a Hybrid Cryptographic Protocol”, *IEEE/ACM Transactions on Computational Biology and Bioinformatics* (TCBB) 2019
- J-1. Feng Chen, **Chenghong Wang**, W. Dai, Xiaoqian Jiang, N. Mohammed, M. Aziz, M. Sadat, Cenk Sahinalp, Kristin Lauter, Shuang Wang, “PRESAGE: PRivacy-preserving gEnetic testing via SoftwAre Guard Extension”, *BMC Medical Genomics* 2017

SELECTED TALKS

- T-3. West China Hospital., Chengdu, China. “Efficient and Secure Federated Learning for distributed EHR Dataset via Trusted Execution Environment”, August, 2019. Invited Talk.
- T-2. Digital Horizon Venture Capital(DHVC), Palo Alto, CA, “Secure Genome Data Analysis”, April, 2018. Invited Talk
- T-1. University of California, San Diego, “Privacy-preserving patient linkage based on the garbled circuit”, August 2016. iDash Internship Research Symposium

SERVICE

Organizing Activities

Competition Task Evaluation Team, iDash Security and Privacy Workshop, 2017.

External Reviewer

External Reviewer, International Society for Computational Biology(ISMB), 2018

External Reviewer, ACM Conference on Bioinformatics, Computational Biology(ACM-BCB), 2017

Reviewer

Reviewer, American Medical Informatics Association Annual Symposium(AMIA).

Reviewer, ACM/IEEE Transactions on Bioinformatics and Computational Biology(TCBB).

Reviewer, IMIA Yearbook of Medical Informatics.