Curriculum Vitae of JIALE CHENG

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Born in Bozhou, China, on Nov. 17th, 1999

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CURRENT RESESARCH INTEREST

Information theory, network coding and its applications in data privacy/security

EDUCATION

Southeast University (SEU), Chien-Shiung Wu Honored College

Nanjing, China 09/2016-06/2020

- Bachelor of Engineering in Communication Engineering 09/2016-06
 Relevant Coursework: Introduction to Information Transmission, Principle of Communication,
- Optimization Methods for Communications and Signal Processing
 Honors: Honored Graduate of Chien-Shiung Wu Honored College, 2017 National Endeavour
- Honors: Honored Graduate of Chien-Shiung Wu Honored College, 2017 National Endeavour Scholarship
- Cumulative GPA: 3.29/4.00

Southeast University (SEU), School of Information Science and Engineering *Master of Science (Pursuing)* in Communications

Nanjing, China 09/2020-Present

- Supervisor: Nan Liu, Wei Kang
- Research Fields: information theory, network coding, private information retrieval, coded caching, secure multiparty computation
- Relevant Coursework: Network Coding: Fundamentals and Applications, Network Information Theory, Detection and Estimation, Stochastic Process
- Average Score: 92.52/100

JOURNAL PUBLICATIONS

[1]. J. Cheng, N. Liu, W. Kang and Y. Li, "The Capacity of Symmetric Private Information Retrieval Under Arbitrary Collusion and Eavesdropping Patterns," in *IEEE Transactions on Information Forensics and Security*, vol. 17, pp. 3037-3050, 2022, doi: 10.1109/TIFS.2022.3201375. Get paper

[2]. J. Cheng, N. Liu, W. Kang, "On the Asymptotic Capacity of Information Theoretical Privacy-preserving Epidemiological Data Collection," to be submitted to *Entropy*, preprint available: https://arxiv.org/abs/2212.05914.

CONFERENCE PARTICIPATION

2022 IEEE East Asian School of Information Theory (EASIT2022)

• Participated as a student member

08/2022

- Student Poster Session: "The Capacity of Symmetric Private Information Retrieval Under Arbitrary Collusion and Eavesdropping Patterns"
- 2021 IEEE East Asian School of Information Theory (EASIT2021)

• Participated as a student member

08/2021

2021 IEEE International Symposium on Information Theory (ISIT2021)

Melbourne, Australia

Shenzhen, China

Online

07/2021

• Served as an invited reviewer of the paper

2019 IEEE International Workshop on Signal Processing Systems (SiPS2019)

Nanjing, China 10/2019

• Student Poster Session & Oral Presentation: "The Design and Simulation of Phased Array Focus in Ultrasonic Wireless Power Transmission"

American Association of Physics Teachers (AAPT) Summer Meeting

Cincinnati, OH

07/2017

• Student Poster Session: "On the falling of a rigid body"

RESEARCH EXPERIENCE

National Mobile Communications Research Laboratory (NCRL)

Nanjing, China

09/2020-Present

- Interests in information theory and network coding
- Participate in the research supported by the National Natural Science Foundation of China
- Published a paper in IEEE Transactions on Information Forensics and Security
- Filed a Chinese patent (Publication No. CN 114567488 A)

National Engineering Research Center for Optical Sensor/Communication Integrated Network Nanjing, China 09/2018-02/2020

- Using the Phased Array Focus to study the Ultrasonic Wireless Power Transmission
- Responsible for the simulation of a proposed design before physical implementation
- Participated in SiPS2019

EXTRACURRICULAR ACTIVITY

Jiangsu Province Blood Center, Nanjing, China

10/2017-09/2018

- Served as a volunteer in Jiangsu Province Blood Center to offer assistance to the blood donors
- Enrolled as a registered volunteer of the Red Cross Society of China

HONORS & AWARDS

•	IEEE Student Member	2021
•	IEEE Information Theory Society Membership	2021
•	Honorable Mention in Mathematical Contest of Modeling (ICM)	2019
•	National Endeavour Scholarship of China, Southeast University	2017

SKILLS & INTERESTS

- Language Skills: Chinese (native), English (fluent), Japanese (elementary knowledge)
- Computer Skills: MATLAB, C/C++, Microsoft Office Tools, LaTeX, Mathematica, Photoshop
- Interests: Reading, Piano, Table Tennis