

SHENGHAO YANG

Associate Professor, Ph.D.

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RESEARCH INTERESTS

Information Theory Coding Theory Network Coding
Network Communication, Computation, and Security
Quantum Information AI

ACADEMIC EXPERIENCE

Associate Professor
School of Science and Engineering (SSE), The Chinese University of Hong Kong, Shenzhen (CUHK(SZ))

2023/07 - Ongoing Shenzhen, China

Assistant Professor
SSE, CUHK(SZ)

2017/09 - 2023/06

Research Assistant Professor
SSE, CUHK(SZ)

2015/09 - 2017/08

Research Associate
Institute of Network Coding, The Chinese University of Hong Kong

2015/02 - 2015/08 Hong Kong, China

Assistant Professor
Institute for Interdisciplinary Information Sciences, Tsinghua University

2012/05 - 2015/01 Beijing, China

Postdoctoral Fellow, Research Associate
Institute of Network Coding, The Chinese University of Hong Kong

2010/01 - 2012/05 Hong Kong, China

Postdoctoral Fellow
Department of Electrical and Computer Engineering, University of Waterloo

2008/11 - 2009/11 Waterloo, Canada

EDUCATION

Ph.D. in Information Engineering
The Chinese University of Hong Kong

2004/08 - 2008/09 Hong Kong, China

Thesis title: Coherent Network Error Correction

Master in Communication Engineering
Peking University

2001/08 - 2004/07 Beijing, China

Thesis: Linear Space Representation and Characteristics of MIMO Communication Systems

Bachelor in Electronics Science
Nankai University

1997/08 - 2001/07 Tianjin, China

ACHIEVEMENTS

Teaching Achievement Award, CUHK(SZ), 2023 for innovation in teaching Linear Algebra

1 informative RFC is published by IRTF, 2023 about BATS coding scheme for network communications

Presidential Young Fellow, CUHK(SZ), 2020

Gold Medal, 47th International Exhibition of Inventions of Geneva, 2019 for a multi-hop wireless network solution based on network coding designed for smart lamppots

1 monograph about BATS code is published, 2017

INDUSTRIAL EXPERIENCE

Co-founder
n-hop technologies

2018 - Ongoing Hong Kong, China

Intern
Hitachi, Thomson

2004/08-2005/06 Beijing, China