Objective

Ph. D. in Electrical Engineering

Education

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| 2012-Present | Southeast University, China  M.S. in Information and Communication Engineering, GPA: 92/100, rank 1st in the department |
| 2008-2012 | Nanjing University of Posts and Telecommunications, China  B.S. in Communication Engineering, GPA: 84.7/100 |

Research Experience

Oct. 2013-Present Graduate Research Assistant

**The Design of DRM Based Digital Broadcasting Software for Multiplatforms**, Multimedia Lab, Southeast University, in collaboration with Suzhou Easternwonder Information Technology Company

Designed and developed Low-Density Parity-Check coding module in OFDM-based communication system, combined with Multilevel Coding

Designed audio interfaces on Android and iOS platforms by C++ and GUI on mobile platforms by Qt

Tested the performance of the software over different channels

**The Design and Analysis of LDPC Codes with EBPSK and MPPSK Modulations**, Multimedia Lab, Southeast University

Designed the calculation of likelihood ratio in LDPC belief propagation decoding from non-coherent demodulation of EBPSK and MPPSK signals

Simulated and compared the performance of LDPC codes with different demodulation schemes of EBPSK and MPPSK signals

Publications

**Y. Liang**, S. Zhang, P. Gu, L. Wu, “Efficient construction and encoding of QC-LDPC by cyclic lifting of protograph,” Journal of Southeast University (English Edition), accepted.

**Y. Liang**, S. Zhang, P. Gu, L. Wu, “On the design of MLC-LDPC-OFDM in DRM MF and HF channels,” in Proc. 2014 International Conference on Wireless Communications and Signal Processing (WCSP’14).

Awards & Honors

2014-2015 National Graduate Scholarship of China (Highest honor)

Standard Tests

TOEFL: Reading: 30, Listening: 28, Speaking: 22, Writing: 24, Total: 104

GRE: Verbal: 159, Quantitative: 170, Writing: 4.0

Skills

Skilled in C/C++/Matlab/VS and Qt