

Yanan Xiao

IEEE Student Member

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Research Interests

I chose “Next Generation Wireless Network” as an optional course and thereafter I was fascinated by the potential it could have upon us, especially in the exchange of information, like mobile computing. I understand that a strong theory foundation is a must for the applications; therefore I've spent lot of time on mathematics, programming principles and other ground theory. I'd like to make some contributions to the basic theory and industrial application of Computer Networks, and wireless networks in particular. Besides, my experience in related courses like operating systems will help advance research in computing and information science.

Objective

To be admitted to Masdar Institute of Science and Technology as a MSc student, and finish the degree in Computing and Information Science. Further my education as well as research as a Ph.D. student in Masdar, if possible.

Publication

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1. Zhenghong Deng, Yongfeng Zhi, **Yanan Xiao**, “Statistical tracking behavior of affine projection algorithm for unity step size”, Journal of System Engineering and Electronics, to appear

Professional Experience

01/2013—06/2013 Graduation Design: Convergency Analysis of Channel

Equalization, Affine Projection Algorithm Approach (working in progress)

Using mature communication system as model and MATLAB as a simulation tool, putting affine projection algorithm and several other algorithms into comparison. In

the end, rewriting the filter with C++ codes to make it more efficient.

10/2012—11/2012 Project: Analyzing the Realization of NAT

Deeply digging into the principles of NAT via RFC and relative books. Analyzing the programming realization in software Emule and Bit-Torrent. Best term paper of course TCP/IP Protocols.

09/2012—10/2012 Project: Bayesian Networks in Reasoning

Understanding the principles of Bayesian Networks. Building a model to analyze the possibilities of breakdown of different components in an aero plane. Using three approaches, C programming, MATLAB programming and Open Source Software.

05/2012—06/2012 Course: Modern Operating System

Analyzing intensively into the Banker's Algorithm. Read several noted papers about the algorithm. Designed a simplified model it. Programmed to see how it works in this model. Won the best term paper of this course.

05/2012—06/2012 Course: Principles of Communication

Assisting teacher building a model of communication used in satellite communication.

07/2011—07/2011 NPU's Mathematical Contest in Modeling

Built a synthesized model to predict housing price in Xi'an. Collaborate programmed in MATLAB to work out the model.

Education

09/2009—06/2013 B.E., Northwestern Polytechnic University

Overall GPA: 3.2

Major GPA: 3.5

Standard Tests

GRE: Verbal 147 (>32%) Q 166 (>94%) AW 3.0

TOEFL: 98 (Reading 27 Listening 21 Speaking 22 Writing 28)

Internship

07/2012—08/2012 Inspur Cooperation, Xi'an Sub Company

On site professional training of server group management and an insight course into its own cloud computing solution.

Service

09/2010—06/2012 NPU's Volunteer Team, Computer Science Group

Chair of the training department. Educated more than 150 students in operating systems and computer networks by holding and organizing lectures.

Professional Skills

Wireless Network

Strong ground theory (see booklist in PPT), Laboratory experiments design, Two years' experience with BackTrack Linux, Intermediate with Wireshark (1 year, full theory, not enough practice)

Data Mining

Textbook "Data Mining, Concepts and Techniques (by Han Jiawei)" in reading, and practice will be done in few weeks.

Programming

Skillful in C (3 years) and MATLAB (2 years), Intermediate with C++, Python and Lisp (1 year, used in course projects)

Comfortable composing essays with LaTeX

Comfortable working with Unix&Linux systems (3 years)

Github: <https://github.com/ProfessorX> (part of project codes are not uploaded yet)