WENQING YAN

12th May 1994, China

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I am a second-year Ph.D. student from Uppsala University, IT department. My research topic is Data Analysis for Security in Body Area Communication, supervised by Prof. Christian Rohner and Prof. Thiemo Voigt.
I am a generalist has the considerable reserve of communication, networking and machine learning knowledge.

EDUCATION

Uppsala University September 2018 – Estimated September 2023
Ph.D. of with a focus on Wearable Sensor Network Security Uppsala, Sweden
Relevant Courses: Sequential Monte Carlo methods (Thomas Schön),
Fundamentals of Machine Learning over Network (FEP3260) etc.

KTH (Kungliga Tekniska högskolan) August 2016 – September 2018
Master of Network Services and System (GPA 4.83/5.0) Stockholm, Sweden
Relevant Courses: Internetworking(EP2120), Network Security(EP2500), Wireless Network(EP2950),
Wireless Transmission Techniques(IK2508), Machine learning(DD2421),
Management of Networks and Networked Systems(EP2300) etc.

University of California, Los Angeles July 2015 – September 2015
Exchange student of Communication Department (GPA 5.0/5.0) Los Angeles, USA
Relevant Courses: Probability, Media and Mind

Beijing Jiaotong University August 2012 – June 2016
Bachelor of Engineering, Communication Systems Engineering (Grade 88/100) Beijing, China
Relevant Courses: Principles of Communication Systems, Signal Processing and Digital Transmission etc.

PROJECTS

Physical Layer Intrusion Detection System for Wearable Devices January – October 2019
Security for Body Area Network – 1st Project of Ph.D. Research Uppsala, Sweden
Use a data analysis method to track wireless signal strength time series and detect abnormal behavior.
- Collect data from wearable sensor testbed focusing on human walking posture.
- Analyze physical signal time series, find out suitable machine learning methods to build prediction models.
- Using outlier detection algorithms to distinguish abnormal behavior coming from illegal devices.

Machine Learning for Enabling Active Measurements in IoT Environment January – September 2018
Management of Networks and Networked Systems – Master Thesis in Ericsson Research Stockholm, Sweden
Use data analysis method to achieve network analytics in IoT environment.
- Collect data from IoT testbed, analyze the relationship between different features and process data.
- Based on the statistical analysis results, find out suitable machine learning method to build prediction models.
- Focus on feature selection, offline learning and online learning models, and the final goal is an optimal framework to prediction network performance metrics.

Estimating Conformance to Service Level Agreements September – October 2017
Management of Networks and Networked Systems – Course Individual Project Stockholm, Sweden
Use machine learning method with Python-Scikit to do network analytics.
- Investigate SLA conformance of a video-on-demand (VoD) services with a small range of dataset.
- Focus on finding out the kernel features and the suitable estimation model.

PUBLICATION

Machine-Learning Based Active Measurement Proxy for IoT Systems	IM´19[1]
Predicting Round-Trip Time Distributions in IoT Systems using Histogram Estimators	NOMS´20[2]
PHY-IDS: A Physical-layer Anomaly Detection System for Body Area Networks	WearSys´20[3]
Privacy-preserving Continuous Tumour Relapse Monitoring Using In-body Radio Signals	SafeThings´20[4]

INTERNSHIP

Baidu Inc. CBSD (Corporate Business Supervision Department) October 2015 – April 2016

One of the largest Internet companies in the world, which offers various service, including a famous Chinese search engine for websites, audio files, and images

- Collected infringing user behavior features and analyzed data from the perspective of risk control.
- Worked with team to explore the demands of automatic supervision system and design a system framework.
- Participated in the testing work of final products; put forward suggestions and opinions.

Beijing ZTE-CE Technology CO., Ltd. March 2016 – April 2016

One of the largest Chinese multinational telecommunications equipment and systems company

- Completed the practice courses of LTE test, OTN (Optical Transport Network) test, PTN (Packet Transport Network) test and Data Communication; analyzed some company internal network structure.
- Achieved the honor of excellent intern with a good presentation of system function analysis.

COMPUTER - SKILLS

- Programming language: Python, C, Matlab
- Machine Learning Library: Sciki-learn, Keras, MxNet
- Operating system: Linux, Contiki, MacOS, Windows
- Database: MySQL, MariaDB
- Other: Wireshark, Linux server, Microsoft Office, LaTeX, Visio

LANGUAGE - SKILLS

English: Advanced in both written and spoken
Chinese: Mother tongue
Swedish: Beginner

ADDITIONAL QUALIFICATIONS

Scholarship: KTH One-Year Scholarship based on the academic performance at KTH
Driving license: Chinese-C1

PROFESSIONAL REFERENCES

Christian Rohner
Job Title: Professor
Uppsala University, Sweden
Phone Number: +46 701679361
e-mail: christian.rohnner@it.uu.se

Andreas Johnsson
Job Title: Master Researcher
Ericsson, Stockholm, Sweden
Phone Number: +46 730958206
e-mail: andreas.a.johnsson@ericsson.com

[1] IFIP/IEEE International Symposium on Integrated Network Management

[2] IFIP/IEEE Network Operations and Management Symposium

[3] ACM Workshop of Wearable Systems and Applications – *in conjuction with ACM MobiSys*

[4] IEEE Workshop on the Internet of Safe Things – *in conjection with IEEE S&P*