Junchi Liu

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EDUCATION

Master of Engineering, (Signal & System Track), Electrical Engineering
Delft University of Technology, NL, Sep. 2023 - Quit in May
GPA: **7.6/10** | Equivalent to **3.8/4.0**

Bachelor of Engineering, Electronic Science and Technology
Xidian University, CN, Aug. 2019 - Jun. 2023
GPA: **3.7/4.0** | Rank: **10%**

Exchange Program, Electrical Engineering
Tohoku University, JP, Oct. 2022 - Mar. 2023
GPA: **AA/AA**

Summer School, Robotics Training & Academic Writing
University of Bristol, UK(Online), July - Aug. 2021

INTEREST

Signal Processing, Machine Learning, Wireless Communication

RESEARCH EXPERIENCE

1. ***Conference paper publication*** as *First author*
   doi:10.1109/ICSPS58776.2022.00026
   Conference: 14th International Conference of Signal Processing System(ICSPS)
   Title: SAR-GMTI Simulation based on DPCA

   - Employed an algorithm(DPCA) into Ground Moving Target Indication(GMTI).
   - Made a report on the conference.

2. ***Patch antenna design****(Undergraduate Project)*   Oct. - Mar.2023
   Wireless Information Technology Lab, Tohoku University

   - Design a patch antenna array(1×2) attached to a cable to ameliorate the performance of 2.4G Wifi in outdoor and indoor space.
   - Simulate the model through CST and conduct the experiment.

3. ***Machine learning*** *Projects*   Sep. 2023 - Apr.2024

   - Projects related to Machine Learning and Signal Processing during my study and research period are created as the repository on my Github Homepage.
   - Including the machine learning classification, Bayesian Neural Network under TensorFlow, and Deep Learning projects(Group Normalization) co-operated with others.

INTERN

1. ***Radar Signal Processing*** *Internship* Jul. 2024 - Now(Expect for 8 months)
   Research of Signal Processing(RSP), FusionRide

   - Analyze automotive radar signal data.
   - Develop Python script to summarize raw data.
   - Adapt signal processing algorithms like CFAR to solve problems(such as unexpected points, unstable targets) in point cloud map of radar.

SCHOLARSHIP Outstanding Student Scholarship, Xidian University, 2020 & 2021 &2022

JASSO Scholarship, Japan Student Service Organizations, 2022

**COMPETITION
AWARDS**

1. Meritorious Winner of Mathematical Contest in Modeling(MCM)   (TOP 7%)
   Administered by Consortium for Mathematics and its Applications(COMAP)

2. First Prize of Competition of Mathematical Modeling
   Awarded by Xidian University

**BACHELOR'S
COURSES**

Linear Algebra **95**
C Program Design **98**
Probability Theory and Mathematical Statistics **93**
Digital Circuits and Logic Design **87**
Electromagnetic Field & Electromagnetic Microwave **88**
Radio Frequency Circuit **90**
Signals and Systems **95**
Equations of Mathematical Physics **99**
Field Theory and Functions of Complex Variables **92**

**MASTER'S
COURSES**

Machine Learning **7.7**
Estimation & Detection **7.0**
Radar I: From Principle to Application **7.5**
System Engineering **8.6**