Zian Chen (Adam Fitz)

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Education

Northwestern Polytechnical University (NPU)

Sep. 2023 – Mar. 2026(Expected)

- M.Eng. Information and Communication Engineering, Weighted Average (Compulsory Courses): 93.12/100, RANK: 1/62
- National Scholarship (Top 2%) | Academic First Class Scholarship (Twice) | First Class Scholarship
- Wireless Communication and Navigation Laboratory (WiCAN LAB) Third Class Scholarship | Aerospace Electromagnetic Cognition and Utilization Institution (AECU INS) Second Class Scholarship
- Outstanding Graduate Student
- Main Courses: Matrix Theory(100), Mathematical Statistics(97), Bid Data Analysis and Mining(95), Information Theory and Coding(95), Modern Communication Theory(95), Computer Communication Networks(94)
- Research Interests: Machine Learning(ML), Integrated Sensing and Communication(ISAC), Unmanned Aerial Vehicle(UAV), Reconfigurable Intelligent Surface(RIS), Physical Layer Security(PLS)

Northwestern Polytechnical University (NPU)

Sep. 2019 - Jun. 2023

- B.Eng. Electronics and Information Engineering (ETP) GPA: 3.7/4.1 RANK: 2/7
- National Encouragement Scholarship (Top 3%) | Academic Second Class Scholarship
- Outstanding Undergraduate Student | Excellent Speaker, "We Talk" Workshop
- Academic Excellence Outstanding Individual (Twice) | Self-striving & Persevering Outstanding Individual | Diligent & Erudite Outstanding Individual
- Main Courses: Calculus I/II/III(100), Computing Method(100), Complex Function and Integral Transformation(100), Microwave and Radio Circuits(97), Fundamentals of Analog Electronics(97), Linear algebra(95)

Paperwork and Patents

- [C₁] **Zian Chen**, Qian Xu, et al. ISAC-OTFS Enabled Secure Transmission Against Co-Existing Internal and External Eavesdroppers in Vehicular Networks [C], 2025 IEEE 8th International Conference on Electronic Information and Communication Technology (ICEICT 2025). (*EI*, *Accepted*)
- [J₁] Qian Xu, **Zian Chen**, et al. Sensing-Assisted OTFS Communications in Hostile Jamming Environment [J], IEEE Wireless Communications Letters. (*SCI Q1, Under review*)
- $[P_1]$ Qian Xu, **Zian Chen**, et al. A Highly Reliable and Secure Transmission Method Based on OTFS[P], Invention Patent in China. (Patent No.CN119276674A)
- [P₂] Xin Yang, **Zian Chen**, et al. An Anti-Jamming Implementation Approach for Integrated Sensing and Communication Waveform[P], Invention Patent in China. (Patent No.2025107315462)
- [P₃] Qian Xu, **Zian Chen**, et al. A Secure Transmission Scheme Based on Self-Interference Cancellation Mechanism[P], Invention Patent in China. (Patent No.202418000868.6)
- [P₄] Qian Xu, **Zian Chen**, et al. A Secure Multiple Access Method Based on Multi-Carrier Modulation[P], Invention Patent in China. (Patent No.202418000872.2)
- [P₅] Qian Xu, **Zian Chen**, et al. A Spectrum Efficient Secure Transmission Scheme Based on Orthogonal Time Frequency Space Modulation[P], Invention Patent in China. (Submitted)
- [P₆] Qian Xu, **Zian Chen**, et al. A Secure Transmission Approach Enpowered by Multi-Dimensional Sensing[P], Invention Patent in China. (Submitted)

Awards (Selected)

- China Graduate Contest on Smart-city Technology and Creative Design Competition
 Oct. 2024
 National Third Prize (*Team Leader*)
- "Challenge Cup" National College Student Extracurricular Academic Science and Technology Works Competition

May. 2025

Shaanxi	Province	Grand	Prize

 "GigaDevice Innovation Cup" National Graduate Student Electronic Design Competition Northwest China Regional First Prize (Commercial Track) 	Jul. 2023
"GigaDevice Innovation Cup" National Graduate Student Electronic Design Competition	Aug. 2024
Northwest China Regional Second Prize (Technical Track)	11ug. 2021
"Aviation, Aerospace & Navigation Cup" Innovation Competition (A Class)	Mar. 2024
University-Level First Prize (Team Leader)	1,141. 2021
•	Am. 2025
Youth League Commendation Series University Cond Ton 10 Teles Youth League Branch (First Place Team Leader)	Apr. 2025
University-Level Top10 "Flag Youth League Branch" (First Place , Team Leader)	
• "Youth in a Prosperous Era, Striving in Prime Time" Annual Excellence Selection Series	Oct. 2024
University-Level Top10 "Model Class" (¥10,000 Funding Awarded, <i>Team Leader</i>)	
Projects (Selected)	
Multi-Dimensional Joint Secure Transmission for UAV-Ground Communications	Apr. 2022 – Present
• National Natural Science Foundation (No.62201462)	(Student Leader)
• Key words: Orthogonal Time Frequency Space; Beamforming and Precoding Design	
Resource Optimization Theory for UAV-Aided Multi-User Secure Communications	Mar. 2024 – Present
• Young Talent Fund of Association for Science and Technology (No.20240148)	(Student Leader)
• Key words: Non-Orthogonal Multiple Access; AI-Driven Non-convex Optimization	
Interference Signal Analysis and Prediction Verification Technology (Completed)	Sep. 2024 – Jul. 2025
University-Institution Joint Innovation Fund	(Core Participant)
• Key words: Intelligent Situational Awareness; AI-Driven Decision Making	
Cell-free Massive MIMO Edge Intelligence Technology (Completed)	Oct. 2022 – Oct. 2023
• National Innovation Project (No.TQ0331TS01023)	(Technical Leader)
• Key words: Reconfigurable Intelligent Surface; Edge Offloading and Computing	
Cooperative Beamforming Enhanced 5G/B5G Mobile Communications (Completed)	Jun. 2021 – Jun. 2023
• Postgraduate Innovation and Practice Fund Project in Shaanxi Province (No.S202110699420)	(Project Manager)
Key words: Coordinated Multiple Points; Cellular Interference Elimination	
Experiences (Selected)	
Internship:	
• FPGA Embedded Development, Huarui Hengtai Tech. Co., Ltd – Guangzhou, China	Sep. 2024 – Oct. 2024
• Huawei Certified ICT Associate, Xiantong Network Tech. School – Xi'an, China	Jul. 2021 – Aug. 2021
• Robotics Training, Robot Center, NPU – Xi'an, China	Mar. 2021 – Jun. 2021
Student Work:	
• Graduate Class President, School of E&I, NPU – Xi'an, China	Sep. 2023 – Present
• Undergraduate Dean's Office Assistant, School of E&I, NPU – Xi'an, China	Feb. 2025 – Jul. 2025
• Teaching Assistant, Fundamentals of Analog Electronics, NPU – Xi'an, China	Sep. 2023 – Jan. 2024
• Teaching Assistant, Machine Learning: Principle and Application, NPU – Xi'an, China	Jun. 2023 – Aug. 2023
Skills	
N IV	

- Natural Languages: Mandarin (Native), English (CET4: 591/710; CET6: 520/710)
- **Programming Languages:** Matlab, Python, C/C++, G(Graphic)
- Drawing Softwares: Matlab, Origin, Visio, PowerPoint
- Machine Learning Algorithms: Neural Network, LSTM (Long Short Term Memory Network), DRL (Deep Reinforcement Learning)