

Guoquan Chen — Harbin Institute of Technology, Shenzhen (HITSZ)
[Personal Homepage](#) | +86 13651455143 | 180210217@stu.hit.edu.cn | guoquanchen1223@163.com



China National Postgraduate Scholarship (0.2%), HITSZ Outstanding Student Pacemaker (0.3%)

HITSZ Postgraduate Grand Prize Scholarship, HITSZ Undergraduate First Prize Scholarship

Background — Strong Communications and Networking Foundation

High-School Shenzhen Senior High School (Group) Centre Campus, Shenzhen, China 2015.09-2018.07

B.Eng. HITSZ, Communications Engineering, GPA 3.746/4.0, Outstanding Graduate 2018.09-2022.07

M.Phil. HITSZ, Information and Communications Engineering (Postgraduate Guaranteed Admission), 3.431/4.0 2022.09-2025.01

Research Experience — Self-motivated and Have Some Research Experience

National Key R&D Program: Air, Space, and Sea Coverage Network Research Project (2020YFB1806403) 2021.12-

Guangdong Basic and Applied Basic Research: Air, Space, and Sea Information Network Project (2022B1515120002) 2022.10-

National Natural Science Foundation: Deep Space Communications Transmission Research (61871147) 2023.03-

National Natural Science Foundation: Research on Information Transmission for Manned Lunar Landing (61831008) 2023.03-

National Key Scientific Research Instrument Project: Deep Space Communications Channel Simulator (62027802) 2023.03-

• **Invention Patent:** Guoquan Chen, Shaohua Wu, Jian Jiao, Qinyu Zhang. *Link Handover and Diversity Merge Research for High-Low Orbital Satellite Hybrid Networks*. Public Number: CN115473569A. Undergraduate Graduation Project Related. **Faculty**

Outstanding Graduation Project & University Outstanding Graduation Project (2%).

• **Publication 1:** Guoquan Chen, Shaohua Wu*, Yajing Deng, Jian Jiao, and Qinyu Zhang. *VLEO Satellite Constellation Design for Regional Aviation and Marine Coverage*. **IEEE TNSE (Transactions on Network Science and Engineering, JCRQ1, IF6.6)**, 2023. DOI: [10.1109/TNSE.2023.3321600](#). Relevant conference version published in **IEEE GlobeCom (CCF C)**, and I presented in Kuala Lumpur, Malaysia on 2023.12.03-09.

• **Publication 2:** Guoquan Chen, Shaohua Wu*, Junhua You, and Qinyu Zhang*. *Communication-Navigation Integrated Satellite Constellation for Lunar Exploration: Frozen-Orbit Based HyInc Walker*. **IEEE JSAC (IEEE Journal on Selected Areas in Communications, JCRQ1, IF16.4)**, 2024. DOI: [10.1109/JSAC.2024.3365888](#). Relevant conference version published in **IEEE WCNC (CCF C)**, and I will be presenting it in Dubai, UAE on 2024.04.21-24.

• **Academic Volunteer Experience:** IEEE GlobeCom 2023 SAC-SSC Session Chair, IEEE WCNC 2024 TPC Member, IEEE PIMRC 2024 TPC Member. **As a Reviewer:** IEEE JSAC, IEEE TVT, IEEE Communication Letters, IEEE INFOCOM, IEEE WCNC, IEEE PIMRC, IEEE WCSP.

• **Research Interest:** Wireless Communications and Networking, Space Communications, Resource Allocation and Optimization, and Intelligent Communications.

• **Skills:** CET-6, MATLAB, STK, Python, C/C++, Latex, Linux, HTML, CSS

Competition Experience — Good Foundation in Mathematics

• China National University Student Mathematical Modelling Competition **Second Prize (Captain)**

• China National University Student Mathematical Competition **Third Prize (Individual)**

• China Guangdong Province Mathematical Modelling Competition **First Prize (Captain)**

• China Guangdong Province Electronic Design Competition **Third Prize (Team Member)**

• China ZTE Algorithm Competition **Winning Prize (Individual)**

Volunteer & Activity — Optimistic and Helpful

Served as Class President & Head of University Ministry of Life. Involved in 30+ volunteer activities, 128h of volunteer time, worked as a Covid-19 volunteer, concerned about society's blood donation and donated 1400mL of blood.

• **Outstanding Individual in University Social Activities**

• **Outstanding Student Leader**

• **Outstanding Volunteer (7 times for now)**

Art & Sports — Personal Diversity

I have good habits in arts and sports (running & badminton). I have been involved in many sports and cultural performances.

• **University Chorus Champion**

• **University Sports Meet 100m Last 8**

• **Faculty Sports Meet 100m Championship**

• **University Orienteering Third Prize**

• **University Sports Meet 100m-Relay Last**