

# Changjin Wang

I am currently a robot algorithm engineer at Huawei's Central Research Laboratories, focusing on the key technologies of robots like motor control, robotic arm motion planning and dynamics control, wheel-leg robot whole-body nonlinear MPC control. I graduated from [Beijing Institute of Technology\(BIT\)](#) with a bachelor's degree in mechanical and electronic engineering in 2017. I was subsequently granted and enrolled in the Robotics Institute of BIT and got a master degree in 2020. I received joint training and graduate guidance at [the University of Auckland\(UoA\)](#), New Zealand.



for more information, please refer to my personal website: <https://wangchangjin123.github.io/cv/>

## Publications

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1: An integrated two-pose calibration method for estimating head-eye parameters of a robotic bionic eye[J]. **IEEE Transactions on Instrumentation and Measurement**, 2019, 69(4): 1664-1672. Chen Xiaopeng, Wang Changjin, Zhang Weizhong, et al. (2nd Author, First Author is my tutor)

[paper](#)

2: The Design and Development of an Anthropomorphic Worm-Gear Driven Robotic Hand: BIT-JOCKO. 2019 IEEE 4th **International Conference on Advanced Robotics and Mechatronics (ICARM)**. Changjin Wang, Yao Sun, Jiafeng Xu, etc. Best Paper Finalist

[paper](#)

## Skills:

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C++, Python, MATLAB, proficient in robotic arm lower-level kinematics, dynamics, floating base dynamics, trajectory planning, with self-written libraries; also have strong theoretical derivation ability and solid engineering skills, the ability to insight the essence and bottleneck of problems, familiar with optimal control, non-linear MPC, have a set of own FOC controller supports dual encoder 3-ring control various feedforward and GUI interface.

## Honors:

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Worked at Huawei for 3 years, received two annual A awards, top 15%, and one annual B+.

National Scholarship (研究生国家奖学金)

National Motivational Scholarship(国家励志奖学金)

Tang Nanjun Scholarship (唐南军奖学金)

SMC Scholarship (SMC 奖学金)

First-class Academic Scholarship for Graduate Students (研究生一等学业奖学金)

First Prize in the National College Student "Challenge Cup" Competition (全国大学生挑战杯一等奖)

First Prize in the National Aerospace Model Competition (全国科研类航空航天模型锦标赛一等奖)

Second Prize in the National College Student Energy Saving and Emission Reduction Competition (全国大学生节能减排大赛二等奖)

Top Ten Projects in the National College Student Innovation and Entrepreneurship Annual Meeting (全国互联网+ 大学生创新创业年会双十佳)

## Contact:

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