

PERSONAL INFORMATION **Zhongmou LI**

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🔗 [zhongmouli.github.io](https://github.com/zhongmouli)

📅 Date of birth 19 Jan 1990 | 🇨🇳 Nationality China

JOB APPLIED FOR **Post-doc in Aerial Manipulation Robots**

EDUCATION

Oct 2017 – Nov 2020 **Ph.D. Student in Robotics**

Institution LS2N, Centrale Nantes (ec-nantes.fr), France

Subject Theoretical developments and experimental evaluation of a novel collaborative

Supervisors Isabelle Fantoni, Abdelhamid Chehette, Vincent Bégoc

- Research
- Performed a complete analysis of quadrotor dynamics and control methods
 - Analyzed aerial manipulation robots using convex analysis techniques limitations.
 - Designed controllers and allocators for a novel aerial manipulation robot Flying Gripper
 - Applied control and allocation methods in real-time experiments

Sep 2015 – Aug 2017 **M.Sc in Advanced Robotics**

Institution Centrale Nantes, France

Thesis Motion planning and control of a Flying Parallel Robot

GPA: 15.3/20

Sep 2013 – Apr 2015 **M.Sc in Navigation, Guidance & Control**

Northwestern Polytechnical University, China

GPA: 80.25/100

Sep 2009 – Aug 2013 **B.Eng in Detection Guidance and Control Technology**

Northwestern Polytechnical University, China

GPA: 82.91/100

WORK EXPERIENCE

Nov 2017 – Today **Lab Assistant Teacher**

Employer Centrale Nantes, France

Assistant instructor for practical sessions of local robotics master and engineering students

- Advanced modeling of robots
- Nonlinear control theory
- Control of linear multi-variable systems

Feb 2017 – Aug 2017 **Research Assistant**

Employer LS2N Nantes, France

Supervisors Damien six, Abdelhamid Chehette, Sébastien Briot

- Research
- Modeled a flying parallel robot consisting of quadrotors linked by passive links
 - Conducted motion planning considering the dynamics constrain and quadrotors payload limitations.
 - Applied motion planed for flying parallele robot in real-time experimentations

RESEARCH SKILLS

- Robotics**
- Quadrotors
 - Underactuated Hands
 - Serial and Parallel Robots
 - Humanoid Robots
 - Kinematic and Dynamic Modeling
- Control**
- Linear, Non-linear Control
 - Adaptive Control
 - Sliding Model Control
 - Model Predictive Control
- Programming**
- ROS
 - C++
 - Matlab & Simulink
 - Msc Adams
 - Linux

PUBLICATIONS

- [1] Zhongmou Li, Xiaoxiao Song, Vincent Begoc, Abdelhamid Chriette, and Isabelle Fantoni. "Dynamic Modeling and Controller Design of a novel aerial grasping robot". In: *23rd CISM IFToMM Symposium on Robot Design, Dynamics and Control (RoManSy 2020)*. Sapporo, Japan, Sept. 2020.

LANGUAGE

Mother tongue Chinese

Other languages

| UNDERSTANDING | | SPEAKING | | WRITING |
|--|---------|--------------------|-------------------|---------|
| Listening | Reading | Spoken interaction | Spoken production | |
| C1 | C1 | B2 | C1 | B2 |
| International English Language Testing System (IELTS) C1 | | | | |
| B1 | B1 | B2 | B2 | A2 |

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)