PERSONAL INFORMATION Zhongmou LI
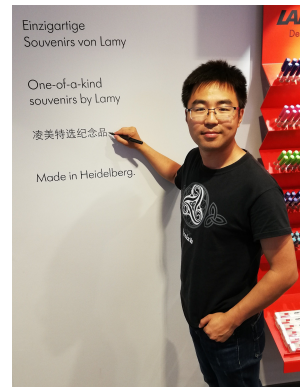
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🌐 zhongmouli.github.io

Date of birth 19 Jan 1990 | Nationality China

EDUCATION

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

Institution Le Laboratoire des Sciences du Numérique de Nantes (LS2N), France

Subject Theoretical developments and experimental evaluation of a novel collaborative

Research − Designed controllers and allocators for a novel aerial manipulation robot Flying Gripper
− Analyzed manipulation capacity of the robot Flying Gripper using convex analysis techniques
− 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

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

Northwestern Polytechnical University, China

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

Northwestern Polytechnical University, China

WORK EXPERIENCE

Nov 2017 – Today **Lab Assistant Teacher**

Employer Centrale Nantes, France

Instructed lab sessions for robotics master and engineering students including theoretical explanation and simulation demonstration

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

Feb 2017 – Aug 2017 **Research Assistant**

Employer LS2N Nantes, France

Research − Modeled a flying parallel robot consisting of quadrotors joined by passive links
− Conducted motion planning considering dynamic constrains and payload limitations

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RESEARCH SKILLS

Robotics − Quadrotors
− Underactuated Hands
− Serial and Parallel 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 scripts

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   English C1 (Proficient user)   French B2 (Independent user)