

# Fan Zhang

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Contact Information	<p><a href="#">Personal Robotics Lab</a> <a href="#">Department of Electrical and Electronic Engineering</a> <a href="#">Imperial College of Science, Technology and Medicine</a> Room 1006, Exhibition Road, SW7 2BT, London, UK.</p>	<p>Email: <a href="mailto:fanzhang0@outlook.com">fanzhang0@outlook.com</a> <a href="http://www.zhang-fan.com">www:www.zhang-fan.com</a></p>
Research Interests	Human-Robot Interaction, Machine Learning, Humanoid Robot, Surgical Robot	
Education	<p><a href="#">Imperial College London</a> <b>Ph.D. in Electrical Engineering</b>, Oct 2016 ~ present Thesis: Personalised Dressing Assistance by Humanoid Robots Supervisor: Prof. <a href="#">Yiannis Demiris</a></p> <p><a href="#">Harbin Institute of Technology</a> <b>M.Sc in Mechatronics</b>, Sep 2014 ~ Jul 2016 Thesis: Preoperative Guidance Optimization for Multi-arm Surgical Robots Supervisor: Prof. <a href="#">Zhijiang Du</a></p> <p><a href="#">Harbin Institute of Technology</a> <b>B.Eng. in Mechanical Engineering</b>, Sep 2010 ~ Jul 2014 Thesis: Mechanical Analysis of Scissor Lifts Considering Friction Supervisor: Prof. <a href="#">Yuan Xue</a></p>	
Awards and Achievements	<p><a href="#">Conference Awards</a> Best Student Paper Award, <a href="#">IEEE International Conference on Mechatronics and Automation (ICMA)</a>, 2016</p> <p><a href="#">Chinese Scholarship Council</a> Chinese Government full CSC Scholarship, 2016</p> <p><a href="#">Harbin Institute of Technology</a> Best Msc Thesis Award, 2016 (&lt;10%) Outstanding Master's Graduates, 2016 (&lt;10%)</p> <p><a href="#">National Basic Foreign Language Teaching Research Centre</a> National English Contest for College Students, First Prize, 2013 (0.6%)</p>	
Journal Publications	<p>Yan Z, Du Z, <b>Zhang F</b>, Wang W (2017). <i>Preoperative optimization of the surgical robot considering internal diversity of workspace</i>. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science.</p> <p>Chen J, Yan Z, <b>Zhang F</b> (2016). <i>Mechanical Analysis and Finite Element Simulation of Scissor Transmission Mechanism under Partial Load</i>, Key Engineering Materials, vol. 667, pp: 518-523.</p> <p><b>Zhang F</b>, Chen J, Yan Z (2013). <i>Mechanical Analysis of Scissor Transmission Mechanism Considering Friction</i>, Applied Mechanics and Materials, vol. 419, pp: 74-80.</p>	

Conference Publications	<p><b>Zhang F</b>, Cully A, Demiris Y (2017). <i>Personalized Robot-assisted Dressing using User Modeling in Latent Spaces</i>, IEEE International Conference on Intelligent Robots and Systems (<a href="#">IROS 2017</a>), Canada.</p> <p><b>Zhang F</b>, Yan Z, Du Z (2017). <i>Preoperative Planning for the Multi-arm Surgical Robot using PSO-GP-based Performance Optimization</i>, IEEE International Conference on Robotics and Automation (<a href="#">ICRA 2017</a>), Singapore, pp: 5629-5635.</p> <p><b>Zhang F</b>, Yan Z, Du Z (2016). <i>Preoperative Setup Planning for Robotic Surgery Based on a Simulation Platform and Gaussian Process</i>, IEEE International Conference on Mechatronics and Automation (ICMA 2016), China, pp: 5629-5635. --- <a href="#">Best Student Paper Award</a></p> <p><b>Zhang F</b>, Su Y, Zhang X, Dong W, Du Z (2015). <i>An Under-actuated Manipulation Controller Based on Workspace Analysis and Gaussian Processes</i>. IEEE/RSJ International Conference on Intelligent Robots and Systems (<a href="#">IROS 2015</a>), Germany, pp: 5629-5635.</p>
Technical Abilities	MATLAB, C/C++, Python, Robot Operating System (ROS), ADAMS, Linux Operating Systems, LaTeX
Outreach	<i>Vice President</i> , <b>Students' Union</b> , School of Mechatronics Engineering, Harbin Institute of Technology, Sep 2012 ~ Sep 2013