

## Zuyuan Zhu

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CONTACT INFORMATION	School of Computer Science and Electronic Engineering University of Essex Colchester, CO4 3SQ, UK	<i>Mobile:</i> +44-7754247955 <i>Email:</i> z.zhu@essex.ac.uk
RESEARCH INTERESTS	Robot learning from demonstration, robotic assembly	
EDUCATION	University of Essex, Colchester, UK	
	PhD Candidate, Computer Science	<b>Oct. 2016 - present</b>
	<ul style="list-style-type: none"><li>• Dissertation Topic: “Robot Learning Assembly Tasks from Human Demonstrations”</li><li>• Supervisor: Prof. Huosheng Hu</li><li>• Expected Graduation Date: Autumn 2020</li></ul>	
	Xiamen University, Xiamen, CHINA	
	M.S., Computer Technology	<b>Sep. 2013 - Jun. 2016</b>
	<ul style="list-style-type: none"><li>• Dissertation Topic: “Developmental Learning Approach to Mobile Manipulator’s Reaching Ability”</li></ul>	
	Harbin Engineering University, Harbin, CHINA	
	B.Eng., Automation(Control theory)	<b>Sep. 2009 - Jun. 2013</b>
ACADEMIC EXPERIENCE	University of Essex, Colchester, UK	
	<i>Graduate Laboratory Assistant</i>	<b>Sep. 2017 - present</b>
	Assisting undergraduate students in the laboratory, undertaking marking of assignments and related administrative work.	
	<ul style="list-style-type: none"><li>• CE315: Mobile Robotics</li><li>• CE243: C Programming and Embedded Systems</li><li>• CE101: Team Project Challenge</li></ul>	Spring 2019, Spring 2020 Autumn 2018, Autumn 2019 2017 - 18, 2018 - 19, 2019 - 20
	<i>Research Assistant</i>	<b>Jun. 2019 - Mar. 2020</b>
	Assisting the module supervisor in structuring mobile robot tutorials with ROS.	
	<i>Open Day Demonstrator</i>	<b>Sep. 2018 - present</b>
	Showing robot demos to get the school children interested in robotics and Essex University.	
ACADEMIC SERVICE	<i>Journal Reviewer</i>	<b>Jul. 2020 - present</b>
	International Journal of Automation and Computing	
PUBLICATIONS	<b>Zhu, Z.</b> and Hu, H., 2018. Robot learning from demonstration in robotic assembly: A survey. <i>Robotics</i> , 7(2), p.17.	
	Wu, R., Zhou, C., Chao, F., <b>Zhu, Z.</b> , Lin, C.M. and Yang, L., 2017. A developmental learning approach of mobile manipulator via playing. <i>Frontiers in neurorobotics</i> , 11, p.53.	
	Chao, F., <b>Zhu, Z.</b> , Lin, C.M., Hu, H., Yang, L., Shang, C. and Zhou, C., 2016. Enhanced robotic hand-eye coordination inspired from human-like behavioral pat-	

terns. *IEEE Transactions on Cognitive and Developmental Systems*, 10(2), pp.384-396.

Zhou, D., Chao, F., **Zhu, Z.**, Lin, C.M. and Zhou, C., 2016, June. A novel approach to a mobile robot via multiple human body postures. In *2016 12th World Congress on Intelligent Control and Automation (WCICA)* (pp. 1463-1468). IEEE.

**Zhu, Z.**, Chao, F., Zhang, X., Jiang, M. and Zhou, C., 2015, August. A developmental approach to mobile robotic reaching. In *International Conference on Intelligent Robotics and Applications (ICIRA)* (pp. 284-294). Springer, Cham.

Chao, F., Sun, Y., Wang, Z., Yao, G., **Zhu, Z.**, Zhou, C., Meng, Q. and Jiang, M., 2014, July. A reduced classifier ensemble approach to human gesture classification for robotic Chinese handwriting. In *2014 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE)* (pp. 1720-1727). IEEE.

PAPER UNDER  
REVIEW

**Zhu, Z.** and Hu, H., 2020. A Novel Skeleton-Joint Mapping Framework for Robot Learning Assembly Skills from Observing Human Demonstrations, *Robotics and Autonomous Systems*.

CONFERENCE  
PRESENTATION

**Zhu, Z.**, Hu, H. and Gu, D., 2018, September. Robot Performing Peg-in-Hole Operations by Learning from Human Demonstration. In *2018 10th Computer Science and Electronic Engineering Conference (CEECE)* (pp. 30-35). IEEE.

COMPUTER SKILLS

- ROS: four-year research experience with Baxter robot in my PhD project, teaching experience with ROSbot mobile robot.
- C/C++: three-semester experience as a Graduate Laboratory Assistant, hands-on experience with Pioneer mobile robot, EMoRo robot, Kinect sensor, ROSbot mobile robot, etc.
- Python: two-year teaching experience with NAO and Pepper robot.
- MATLAB: teaching experience with EMoRo robot.

HONORS AND  
AWARDS

China Scholarship Council Scholarships (Fully funded PhD scholarship), 2016