

# Hong XIAO

Associate Professor of Mechanical Engineering



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## EDUCATION

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**Doctor of Philosophy (Master-and-Doctoral program)** 09/2010-12/2014

School of Mechanical Engineering, Northwestern Polytechnical University  
- Research interests: digital design and manufacturing, CAD, augmented reality, etc.  
- Supervisor: Prof. Dr. Yuan Li

**Master of Science** 09/2009-06/2010

School of Mechanical Engineering, Northwestern Polytechnical University  
- Research interests: digital design and manufacturing, CAD, etc.  
- Supervisor: Prof. Dr. Yuan Li

**Bachelor of Science** 09/2005-06/2009

School of Mechanical Engineering, Northwestern Polytechnical University  
- Ranking: Top 1% out of 400 students in the class  
- Honor & Awards: Merit Student (2006-2008), Outstanding Graduates Awards(2009)

## RESEARCH POSITION

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**Xi'an Jiaotong University** 02/2018-Ongoing  
Associate Professor, School of Mechanical Engineering

**University of Birmingham** 11/2016-11/2017  
Academic Visitor, School of Engineering

**Xi'an Jiaotong University** 02/2015-01/2018  
Assistant Professor, School of Mechanical Engineering

## TEACHING

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**Teaching Assistant** 03/2015- ongoing  
School of Mechanical Engineering, Xi'an Jiaotong University  
- Engineering Drawing

## SELECTED PUBLICATIONS

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**Detection and estimation of mental fatigue in manual assembly process of complex products**  
Hong Xiao, Yugang Duan, Zhongbo Zhang, Ming Li  
*Assembly Automation*, 02/2018

**Mobile 3D assembly process information construction and transfer to the assembly station of complex products**  
Hong Xiao, Yugang Duan, Zhongbo Zhang  
*International Journal of Computer Integrated Manufacturing*, 01/2018

**Sensitivity analysis of correlated inputs: Application to a riveting process model**

Hong Xiao, Yugang Duan

*Applied Mathematical Modelling*, 06/2016

**√ 3-Subdivision wavelets for sharp features preservation**

Hong Xiao, Yuan Li, Jianfeng Yu and Jie Zhang

*LNCS Transactions on Computational Science*, 01/2014

**Multi-objective optimization method for automatic drilling and riveting sequence planning**

Hong Xiao, Yuan Li, Kaifu Zhang, Jianfeng Yu, Zhenxing Liu and Jianbin Su

*Chinese Journal of Aeronautics*, 12/2010

**RESEARCH PROJECTS**

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**China Postdoctoral Science Foundation Funded Project (Grant No. 2016M590938)**      **2016-2018**  
Ongoing, Principal Investigator

**National Natural Science Foundation of China (Grant No. 51505367)**      **2016-2018**  
Ongoing, Principal Investigator

**Research program for new faculties of Xi'an Jiaotong University**      **2015-2018**  
Ongoing, Principal Investigator

**Youth program of National Key Laboratory Foundation**      **03/2015-12/2015**  
Accomplished, Principal Investigator

**Basic Research Foundation of Northwestern Polytechnical University (Grant No. JC201137)**      **2011-2014**  
Accomplished, project applicant and major contributor

**Subproject of National High Technology Research and Development Program of China (Grant No. 2009AA044601)**      **2011-2013**  
Accomplished, major contributor