**Microsoft Fellowship Application Form [2016]**

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| University | National University of Defense Technology | | College/School | The College of Computer | |
| Department |  | |
| Name | Yawei Zhao | Chinese Name | 赵 亚威 | Gender | Male |
| Country/Region | China | PhD Enrollment Date | 03/2016 | Expected PhD Graduation Date | 12/2020 |
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| Post Address & Zip Code | 109 Deya Road, Changsha, Hunan. 410073 | | |
| Your PhD Supervisor’s Information | Name: Jianping Yin, Title: Professor,  Email: [jpyin@nudt.edu.cn](mailto:jpyin@nudt.edu.cn), Tel.: 13308491311,  Home Page: [homepage](https://www.researchgate.net/profile/Jianping_Yin). | | | | |
| Education Background (started from college) | * 09/2009 – 06/2013, National University of Defense Technology, Information Science, Bachelor of Engineering; * 09/2013 – 12/2015, National University of Defense Technology, Information Science, Master of Engineering; * 03/2016 – 12/2020 (expected), National University of Defense Technology, Computer Science, PhD student; | | | | |
| Research Interests | (Please describe your current research interests and focus.)  I am interested at the large scale machine learning tasks in a distributed system, and especially focus on the recognition of the medical image. | | | | |
| Research  Experience | (Please describe at most three research projects you have participated in. The description of each project should be in fewer than 80 words, and your contributions should be emphasized.) | | | | |
| Publications | [1] **Yawei Zhao**, Deke Guo, Jia Xu et al., “CATS: Cooperative Allocation of Tasks and Scheduling of Sampling Intervals for Maximizing Data Sharing in WSNs”, *ACM Transactions on Sensor Networks (TOSN)*,2016. (Accepted in June, 2016. Influence Factor: 1.448).  [2] **Yawei Zhao**, Fei Cai, Junjie Xie et al., “A New DHT Supporting Multi-attribute Queries for Grid Information Services”, *IEEE Conference of High Performance Computing and Communications (HPCC)*, 2013.  [3] **Yawei Zhao**, Honghui Chen, Jia Xu et al., “Mirror Data to the Ceiling: A New Completely Wireless Data Center”, *Springer Communications in Computer & Information Science*, 2014. | | | | |
| Recent Honors & Awards | The **second prize** of the 11th National Postgraduate Mathematic Contest in Modeling, 2014.  The **second prize** of the 1st National College Competition of Internet of Things, 2014. | | | | |
| Other Valuable Experiences or Qualifications | (Please specify any valuable experiences or qualifications you would like to share with Fellowship Committee.) | | | | |
| Research Plan | (Please provide your future research plan in less than 1000 words)  With the proliferation of data, much time is consumed to train complex machine learning models due to the huge training data. A practical solution is to perform such those large scale machine learning tasks in distributed systems. I am focusing on building a distributed machine learning system on an HPC cluster. First, many of those machine learning algorithms are iterative-convergent. Considering that those machine learning algorithms are error-tolerate, and their parameters may have dependency structure and be unevenly convergent as well, the underlying distributed system will exploit these properties and thus accelerate the training process. Second, we begin conducting the research cooperating with many hospitals. Extremely large amount of medical images such as cancel images have been collected, which, aiming to improving the medical service, will be used to conduct the recognition research of those medical images. | | | | |
| Department recommendations | (Department should send their name list of nominees to Microsoft contact person and fellowra@microsoft.com before deadline) | | | | |
| Recommendation Letters | (At least two 2 letters of reference from established researchers familiar with the nominee’s research. Of these, one 1 letter should come from the student's advisor. Scanned copy of the signed recommendation letters should be sent to fellowra@microsoft.com directly.) | | | | |

**Note: \***Please strictly follow the instructions in **grey**, and delete them after you complete the form.

Nominees should submit this form and other required materials via [online application tool](https://msrprograms.cloudapp.net/MSRAF2016/) by June 25, 2016.

Please click [Apply for the Microsoft Research Asia PhD Fellowship](http://rmc-stage/en-us/collaboration/global/asia-pacific/talent/fellowship-application.aspx) for more details.

**Application Date: mm/dd/yyyy**