

Ruofei Du

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EDUCATION	<i>Bachelor of Science in Engineering, ACM Class</i> , Shanghai Jiao Tong University Last-year GPA: 89.5/100 GRE Verbal: 720/800 Quantitative: 800/800	Sep. 2009 – Jul. 2013
RESEARCH INTERESTS	General Human-Computer Interaction (especially interactive graphics and augmented reality) Computer Vision (especially 3D reconstruction, tracking and scene understanding)	
RESEARCH EXPERIENCE	Full-time Research Intern , Microsoft Research Asia <ul style="list-style-type: none">Web Search & Mining Group: co-supervised by Zhiwei Li, Rui Cai and Lei Zhang<ul style="list-style-type: none">✓ 3DVAR: From 3D Reconstruction to Virtual and Augmented Reality is submitted to CHI 2013 (video session).✓ One anonymous paper on segmentation submitted to CVPR 2013 collaborated with my advisors.✓ Co-designed and implemented a real-time multi-view based 3D surface reconstruction system.✓ Implemented and designed a real-time augmented reality system at <i>Microsoft TAB 2012</i> and <i>Student TechFest 2012</i>.✓ Investigated topics including <i>tracking</i>, <i>calibration</i>, <i>segmentation</i>, and <i>silhouette propagation</i>.Human-Computer Interaction, co-supervised by Xiang Cao and Koji Yatani<ul style="list-style-type: none">✓ Investigated topics including <i>tangible UI</i>, <i>interactive graphics</i>, <i>InfoVis</i>, <i>cooperative work</i> and <i>augmented reality</i>. Research Assistant , Center for Brain-Like Computing and Machine Intelligence	Jul. 2012 – Jan. 2013 Jul. 2011 – Jul. 2013
	<ul style="list-style-type: none">Computer Vision and Electrooculography on Vigilance Analysis, supervised by Prof. Bao-Liang Lu<ul style="list-style-type: none">✓ Extracted robust features of eye movements and train a supervised appearance model for fatigue detection.✓ Won the 2nd prize on the <i>China International Industry Fair</i> (CIIF) in November, 2011.Computer Vision and Machine Learning on Facial Expression, supervised by Prof. Bao-Liang Lu<ul style="list-style-type: none">✓ Improved the performance of facial expression recognition using fuzzy integral on ASM and Gabor features.	
	Research Assistant , Eye Tracking Lab, A+ in 18 th PRP program, Shanghai Jiao Tong University	Sep. 2010 – Apr. 2011
	<ul style="list-style-type: none">Human-Computer Interaction, supervised by Prof. Zhanxun Dong<ul style="list-style-type: none">✓ Invented real-time behavior recognition algorithms for gazing, eye movement and body postures.✓ Designed a 3D world wander system and an eye-control cellphone prototype.	
	Founder of Text Tagging Team , <i>tag.duruofei.com</i> , advised by Prof. Kenny Q. Zhu	Mar. 2012 – Jun. 2012
	<ul style="list-style-type: none">Developed an online text tagging system based on Bayesian network classifier and categorized models.	
PUBLICATIONS	[1] Ruofei Du, Renjie Liu, Tianxiang Wu and Bao-Liang Lu, <i>Online Vigilance Analysis Combining Video and Electrooculography Features</i> , in the proceeding of the 19 th International Conference on Neural Information Processing (ICONIP), vol. V, pp. 447-453, 2012. [PDF][Oral Presentation] [2] Portfolio : MSRA Postcards BCMI Lab Logo, EXPO Poster, ACM Class 10 Years Anniversary Album	
COURSE PROJECTS	Multi-specification Compliant IOT Code Resolution Service platform based on DNS <ul style="list-style-type: none">Coordinated 9 groups including 31 undergraduates and 3 graduates as a project manager, ranked #1. Japanese Corpus (A+ for the 20 th Participation in Research Program) <ul style="list-style-type: none">Led a five-people team to implement a search engine for a Japanese Corpus with millions of articles. Nachos OS (Operating System Laboratory, CS162 of UC Berkeley), scored 92 / 100 <ul style="list-style-type: none">Implemented thread management, multi-programming, virtual memory, file system on a MIPS machine. TeNet (Computer Network Laboratory), scored 96 / 100 <ul style="list-style-type: none">Implemented ARP, L2 Switch, IP, TCP and Dynamic Routing algorithms in 2 months. Compiler for Language Tiger (Project Workshop of Compiler Principles) scored 94 / 100 <ul style="list-style-type: none">Wrote a complete compiler in 3 months and optimize it by dead code erasing, loop unrolling, peephole.	Spring 2012 Fall 2011 Fall 2011 Fall 2011 Spring 2010
AWARDS	1st Place at Student TechFest 2012 in Microsoft Research Asia Scholarship from Bosch (2 out of ~300) in Shanghai Jiao Tong University Winner Prize (top 3) at MSRA Intern Postcard Design Contest Academic Excellence Scholarship (First-class, ranked #2/180) in Shanghai Jiao Tong University Honorable Mention , The Interdisciplinary Contest in Modeling Scholarship from Schneider Electric (1 out of 30 in ACM Class) 1st Prizes for 3 years (top 3 out of ~400) in Nation Olympiad in Informatics in Provinces (NOIP)	Dec. 2012 Nov. 2012 Nov. 2012 Oct. 2012 Feb. 2012 Dec. 2010 2006-2008
HONORS	Chief Technology Officer of Microsoft ARD Intern Community Reviewer of interactivity papers submitted to SIGCHI 2013 Founder and President of Windows 8 Development Club in Microsoft Research Asia Teacher Assistant for the CS484 Programming Practice for Computing Algorithm Volunteer Star Award for excellent service in the World EXPO 2010	Nov. 2012 July. 2012 Summer 2011 Oct. 2010
SKILLS & HOBBIES	C/C++/CX/C#, Open CV/GL, DirectX, Matlab, Java, PHP, JavaScript, CSS, LaTeX, Verilog Harmonica, Speech, Sketch, Calligraphy, Piano, Cucurbit Flute, Swimming, Table Tennis.	