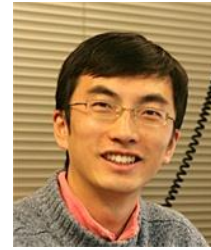


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# Jia Chen

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## Education

- 02/2005 – 08/2009 **PhD in Computer Science**  
Department of Computer Science and Engineering,  
The Hong Kong University of Science and Technology,  
Advisor: Prof. Chi-Keung Tang
- 09/1999 – 06/2003 **B. Eng. in Automation Technology**  
Department of Automation,  
Tsinghua University, Beijing, P. R. China

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## Research Interests

### Machine Learning and Pattern Recognition

Object detection, OCR, face alignment and fast algorithm in machine learning.

### Computer Vision and Graphics

Motion tracking, feature detection, denoising and deblurring.

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## Work Experience

- 03/2010 - present **R&D Lead**  
Visdom Intelligent Technology Ltd.  
Shenzhen, P. R. China
- 09/2009 - 02/2010 **Postdoc Fellow**  
Department of Computer Science and Engineering,  
The Hong Kong University of Science and Technology,
- 09/2008 - 12/2008 **Research Intern**  
Advanced Technology Labs  
Adobe System, Inc., United States
- 02/2008 - 07/2008 **Visiting Scholar**  
Graphics and Imaging Laboratory, Dept. of CSE  
University of Washington, United States
- 02/2005 - 08/2009 **Research Assistant and Teaching Assistant**  
Department of Computer Science and Engineering,  
Hong Kong University of Science and Technology
- 07/2004 - 01/2005 **Research Intern**  
Visual Computing Group, Microsoft Research Asia

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03/2003 - 11/2003 Beijing, P.R.China  
**Research Intern**  
Visual Computing Group, Microsoft Research Asia  
Beijing, P.R.China

07/2002 - 09/2002 **Intern**  
Wintone Tech. Ltd., Corp, Beijing, P. R. China

01/2002 - 04/2002 **Part-time Student**  
Multi-model User Interface Group, Microsoft Research Asia.  
Beijing, P. R. China

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## Publications

**Jia Chen**, Chi-Keung Tang, Jue Wang, *Noise Brush: Interactive High Quality Image-Noise Separation*, ACM Transactions on Graphics (Proceedings of SIGGRAPH Asia), 2009

(Cited by over 4 papers.)

**Jia Chen**, Lu Yuan, Chi-Keung Tang, Long Quan, *Robust Dual Motion Deblurring*, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2008

(Accepted as poster paper, with acceptance rate about 25%. This paper receives Best Student Poster Award amount all posters. Cited by over 36 papers.)

**Jia Chen**, Chi-Keung Tang, *Spatio-Temporal Markov Random Field for Video Denoising*, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2007

(Accepted as oral paper, with acceptance rate about 5%. Cited by over 24 papers.)

### PhD thesis:

*Visual Enhancement Using Multiple Cues*, HKUST, 2009

### Bachelor thesis:

*Facial Expression Analysis and Recognition*, Tsinghua University, 2003

## Patents

One US patent pending

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## Projects

### Machine Learning

2010~2012: Manage the development of a commercial machine learning module for object detection and recognition, at million-sample scale.

### Fast Object Detection

2010~2012: Develop fast algorithms for object detection and achieved a 40x

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training time speed up and 20x running time speed up.

### **Interactive Image Denoising**

2008~2009: Re-formulate the image denoising problem as image-noise separation to achieve the state-of-the art..

### **Video Deblurring**

2008: Use motion estimation to assist video frames deblurring.

### **Image Deblurring**

2007~2008: Design an algorithm that accepts two photos as deblurring input.

### **Video Denoising**

2006~2007: Use a spatio-temporal MRF to address the video denoising problem.

### **High Dynamic Range Panorama**

2005~2006: Combine high dynamic range imaging and panorama stitching

### **Semantic Natural Image Segmentation and Understanding**

2004: Automatic image segmentation based on labeled data

### **Face Detection and Alignment**

2003: Use boosting and cascade for face detection. Combined feature detection and priori learning for face alignment.

### **Facial Expression Classification**

2003: Use dimension reduction plus linear classifier to identify human emotion.

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## **Awards**

- 06/2008 Best Student Poster Award, IEEE CVPR 2008
  - 11/2007 Overseas Research Award, HKUST
  - 05/2007 Research Travel Grant Award, HKUST
  - 12/2002 NKK Fellowship, Tsinghua University
  - 12/2001 Second Prize for Student Research Training Project, Tsinghua University
  - 01/2001 First Class Prize for Student Contest, Tsinghua University.
  - 12/2000 First Class Prize in Beijing College Student Physics Contest
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## **Academic Activities**

Journal Reviewer: IEEE Trans. PAMI, 2010, Machine Vision and Applications (MVA), Image and Vision Computing Journal (IVC)

Conference Reviewer: IEEE International Conference on Computer Vision (ICCV), 2007 and 2009, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2005 and 2008

Member: IEEE, ACM

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## **Skills**

C/C++ programming, over 12 years. Skilled in Matlab, Assembly  
Fluent oral and written English. Native in Mandarin.

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## References

### **Chi-Keung Tang**

Professor,

Department of Computer Science and Engineering, HKUST,

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Homepage: <http://www.cs.ust.hk/~cktang/>

### **Jue Wang**

Senior Researcher,

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