

# Hongchang Peng

*curriculum vitae*

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## Objective

PhD degree in the field of "Computer Vision, Image Processing and Computer Graphics"

## Research Interests

Computer Vision, Image Processing and Computer Graphics.

## Education Background

Sep.2005–  
present

**University of Science and Technology of China (USTC),**

*Candidate for Bachelor in Electronic Engineering and Information Science, expected July, 2009*

*Overall GPA: 3.44/ 4.3 Math Related GPA:3.88/4.3 Major GPA: 3.65/4.3*

*Weighed Score: 85.14 / 100*

## Scholarships & Awards

2006 2007 Outstanding Student Scholarship Grade Two of USTC

2007.1 Third Prize in the Dissertation Competition on Electromagnetic Researches

## Experience

### Research

2008.10-Present **Currently researching into Plate Detection System.**

○ Innovate with improved version of Adaboost learning algorithm

○ Central target is to accelerate the running speed, while retaining the detection rate.

2008.6-2008.10 **Intern as the Research Assistant of the Key Laboratory for Complex Systems and Intelligence Sciences, Institute of Automation at the Chinese Academy of Sciences.**

○ Propose and find out an improved method for Single document Keyword Extraction, without using a corpus

○ Improve the precision rate and recall rate from average 45% to above 50% in the news keyword retrieval, according to the simulation result;

- 2007.10-2008.4 **Multi-Media Tech. Lab, USTC.**  
 ○ Design a GUI interface and MFC program for operations in Image Processing, both in spatial and transform domain.  
 ○ Multi-media experiments, which work on programs such as the transmission of multimedia through email, the API based programming and so on.
- 2007.9-12 **Iflyteck research lab.**  
 ○ Participate in the seminar about Pattern Recognition and the latest utility of the machine learning theories in the speech signal processing.

### Extracurricular

- 2008.6-10 **Volunteer for the anniversary of the campus.**  
 Selected into the special group to receive the distinguished guests
- 2007-Present **Senior Member of Campus Photography Association.**  
 1. Full-time Photographer for school beauty upon their requests  
 2. outdoor photography journeys on a monthly schedule
- 2006.9-present **Senior Member of Microsoft Club of USTC.**
- 2005.9-2006.9 **Associate Director in the USTC Student Union.**  
 1. as the assistant director in Event Organizing Committee (in charge of the management of the major activities)  
 2. Jointly organizing and managing activities such as "USTC Star Champion in Basketball", "Best Cook on Campus".

### Languages Standard Test

TOEFL **Total 105** *Reading 29, Listening 25, Speaking 23, Writing 28*  
 GRE **600+800+4.5** *Verbal: 600, 85%; Quantitative: 800, 94%; Analytical Writing: 4.5, 54%*

### Computer Proficiency

Programming Skills C/C++, Java, Assembly Language, VHDL, SQL etc.  
 Tools Matlab, Latex, MS Office, Adobe Photoshop, etc.



| Reg. No.:PB05210213  |   | Name: Peng Hongchang         |         | Birth Date: 06/08/1987                 |  | Enrl.Date: 2005/09 |                                   |     |         |
|--|---|------------------------------|---------|--|--|--------------------|-----------------------------------|-----|---------|
| Department of Electronic Engineering and Information Science |   |                              |         |  |  | Grad.Date: 2009/07 |                                   |     |         |
| Speciality: Electronic Information Engineering               |   |                              |         |  |  | GPA: 3.44          |                                   |     |         |
| Course Title (Fall Term)                                     |   |                              | Gr.     | Hr./Cr.                                | Course Title (Spring Term)                   |                    |                                   | Gr. | Hr./Cr. |
| 2005   | Mechanical Engineering Drawing                | 74                           | 40/2.0  | 2006                                   | Basic Physical Education Option              | B+                 | 40/1.0                            |     |         |
|  | Single Variable Calculus                      | 98                           | 120/6.0 |  | Multivariable Calculus                       | 87                 | 120/6.0                           |     |         |
|  | Linear Algebra                                | 95                           | 80/4.0  |  | College English(2)                           | 95                 | 80/4.0                            |     |         |
|  | College English(1)                            | 97                           | 80/4.0  |  | Basic Physics Experiment                     | 86                 | 54/1.0                            |     |         |
|  | Basic Physical Education                      | A-                           | 40/1.0  |  | Mechanics and Thermodynamics                 | 85                 | 80/4.0                            |     |         |
|  | Introduction to Mao Zedong's Thoughts         | 84                           | 40/2.0  |  | Principles of Marxist Philosophy             | 92                 | 60/3.0                            |     |         |
|  | Fundamentals of Laws                          | 89                           | 40/2.0  |  | Electronic Circuits Basic Theory             | 95                 | 60/3.0                            |     |         |
|  | Moral Accomplishment for Students             | 85                           | 40/2.0  |  | Exp. of Electronic Circuits Basic Theory     | 90                 | 30/5                              |     |         |
|  | C Language Programming                        | 92                           | 70/2.5  |  | *Communicative Training for College Students | B-                 | 40/2.0                            |     |         |
|  | Computer Culture                              | 91                           | 40/1.0  |  | *Management Psychology                       | B+                 | 40/2.0                            |     |         |
|  |   |                              |         |  |  |                    |                                   |     |         |
|  | 2006  | Physical Education Option(1) | A-      |  | 40/1.0                                       | 2007               | Mathematical Physics Equations(A) | 92  | 60/3.0  |
| Function of Complex Variable(A)                              |   | 95                           | 60/3.0  | Signals and Systems                    | 76   |                    | 80/4.0                            |     |         |
| Probability Theory and Math. Stat.(B)                        |   | 82                           | 60/3.0  | Stochastic Processes                   | 92   |                    | 40/2.0                            |     |         |
| College English(3)   |   | 93                           | 80/4.0  | Modern Physics Experimental Technology | 84   |                    | 54/1.0                            |     |         |
| Comp. and Student-creative Phys. Exp.                        |   | 89                           | 54/1.0  | Optics and Atomic Physics              | 71   |                    | 80/4.0                            |     |         |
| Electromagnetics   |   | 85                           | 80/4.0  | Deng Xiaoping's Thoughts               | 81   |                    | 60/3.0                            |     |         |
| Principles of Political Economy                              |   | 79                           | 40/2.0  | Digital Logic Circuits                 | 88   |                    | 60/3.0                            |     |         |
| Data Structure and Its Algorithm                             |   | 93                           | 100/4.0 | Experiment of Digital Logic Circuits   | B-   |                    | 30/5                              |     |         |
| Military Theory  |   | Pass                         | 40/1.0  | Linear Electronic Circuits             | 87   |                    | 60/3.0                            |     |         |
| Fundamentals of Database                                     |   | 78                           | 60/2.5  | Exp. of Linear Electronic Circuits     | 75   |                    | 30/5                              |     |         |
|  |   |                              |         |  |  |                    |                                   |     |         |
| 2007   | Computational Methods(B)                      | 90                           | 40/2.0  | 2008                                   | Physical Education Option(2)                 | B+                 | 40/1.0                            |     |         |
|  | Digital Signal Processing                     | 80                           | 60/3.0  |  | Computer Network                             | 69                 | 80/3.5                            |     |         |
|  | Microcomputer Principles and Systems          | 72                           | 120/5.0 |  | Discrete Mathematics                         | 65                 | 60/3.0                            |     |         |
|  | Information Theory(A)                         | 93                           | 60/3.0  |  | Introduction to Digital Image Processing     | 84                 | 60/3.0                            |     |         |
|  | Nonlinear Electronic Circuits                 | 77                           | 60/3.0  |  | Digital Signal Processing Laboratory         | A                  | 20/5                              |     |         |
|  | Electromagnetic Field Theory                  | 77                           | 60/3.0  |  | Fundamentals of Microwave Technology         | 83                 | 80/3.5                            |     |         |
|  | Nonlinear Electronic Circuits Laboratory      | 76                           | 30/5    |  | Principles of Modern Communication           | 78                 | 80/3.5                            |     |         |
|  | Selected Reading of the Classic of Nobel Econ | A                            | 40/2.0  |  | Undergraduate Research Project               | B+                 | 0/6.0                             |     |         |
|  | Photography                                   | B+                           | 40/2.0  |  |  |                    |                                   |     |         |
|  | Senior Design Project Laboratory              | 90                           | 20/5    |  |  |                    |                                   |     |         |
| Statistical Analysis of Signals                              | 83  | 60/3.0                       |         |  |  |                    |                                   |     |         |
|  |   |                              |         |  |  |                    |                                   |     |         |
|  |   |                              |         | Thesis:                                |  |                    |                                   |     |         |
|  |   |                              |         | Supervisor:                            |  |                    |                                   |     |         |
|  |   |                              |         | Grade:                                 |  |                    |                                   |     |         |

GPA Calculation:

|                  |        |       |       |       |       |       |       |       |       |     |       |    |
|------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|----|
| Centesimal Grade | 100~95 | 94~90 | 89~85 | 84~82 | 81~78 | 77~75 | 74~72 | 71~68 | 67~65 | 64  | 63~61 | 60 |
| Letter Grade     | A+     | A     | A-    | B+    | B     | B-    | C+    | C     | C-    | D+  | D     | D- |
| Point Value      | 4.3    | 4     | 3.7   | 3.3   | 3     | 2.7   | 2.3   | 2     | 1.7   | 1.5 | 1.3   | 1  |

$$GPA = \frac{\sum(\text{Course Credit} * \text{Course GP})}{\sum \text{Course Credit}}$$

ABF: Absent/Failure; DF: Deferred; I: Incomplete; IV: Invalidation

Dept. Head: Wu Cgy Registrar: Cao Wenping

Section of Teaching Affairs: G

