

# Chongyang Bai

bchy@mail.ustc.edu.cn  
https://github.com/cy-bai  
(+86)17755122774

RM 366-501 West Campus USTC  
No.96, JinZhai Road  
Hefei, Anhui 230026  
P. R. China

## Education

### University of Science and Techonology of China (USTC)

- B.Sc. of Information and Computing Science *Sept. 2012 - June. 2016*
  - GPA: 3.66/4.30, Rank: 28/125, Average Score: 86.90/100
- B.Sc. of Computer Science (Dual) *Marc. 2014 - Janu. 2016*

## Work Experience

- **Word Reciting Module of Microsoft Bing Dictionary UWP** Microsoft Research Asia (MSRA)  
*Intern* *Sept. 2015 - Janu. 2016*
  - Introduced a continue value of familiarity of a word (calculated by the time of recall) and employ the algorithm 'MemReflex' to compute the next time of word review.
  - Designed a refreshing and friendly user interaction including counting down, undoing, word addition/deletion, etc.
  - Developed the universal windows platform **App[1]** by C# and XAML.
- **Software Enjineering by Dr. Hongping Deng** USTC  
*Teaching Assistant* *June. 2016 - Augu. 2016*
  - Illustrated methods of C/C++ code optimization.
  - Participated in the investigation and developing discussion of some software projects in the class.

## Research Experience

- **Volumetric PolyCube-Map Construction and Hex Meshing** Internet Graphics group, MSRA  
*Advisor: Dr. Yang Liu, Xiaoming Fu* *July. 2015 - Marc. 2016*
  - Surveyed PolyCube construction methods: divide and conquer, deformation, GraphCut,  $l_1$ -based, etc.
  - Implemented state-of-art PolyCube construction methods: deformation and GraphCut .
  - Developed mesh labeling, segmentation and flattening module of our algorithm, the **paper[2]** is accepted by Pacific Graphics.
- **Generalized PolyQuad Aided Planar Quadrilateral Mesh Generation** Internet Graphics group,MSRA  
*Advisor: Dr. Yang Liu* *Febu. 2016 - June. 2016*
  - Surveyed planar quad meshing demands and methods.
  - Constructed generalized PolyQuad to generate singularity controllable planar quadrilateral meshes efficiently and robustly.
  - Developed a GUI incorporating our new algorithm based on Qt, CGAL and MOSEK.

## Awards & Honours

<b>Stars of Tomorrow in MSRA Internship Program</b>	06/2016
Outstanding Undergraduate in USTC(Top 20%)	05/2016
Outstanding Student Scholarship in USTC(Top 20%)	10/2015
<b>National Endeavor Fellowship</b>	11/2014
<b>Kwang-Hua Scholarship</b>	10/2014
Outstanding Freshman Scholarship in USTC(Top 30%)	10/2012

## Seminars & Lectures

- **Big Data Analytics** USTC  
*Lecturer: Jian Pei, Simon Fraser University* June. 2015
  - Introduced sampling techniques and some computational statistics tools such as EM optimization and Monte Carlo Methods, investigate relevant case studies in big data analytics.
- **Seminar about Computer Graphics** MSRA  
*Supervisor: Dr.Xin Tong, Dr.Yang Liu and Dr.Yue Dong* July. 2015 - June.2016
  - Discussed a recent paper(from SIGGRAPH, SIGGRAPH ASIA, CVPR...) on **every weekday**, including appearance modeling, geometric modeling and processing, image based modeling and rendering, facial animation, etc.
- **Advanced Research Lectures in Computer Science** MSRA  
*Lecturers: Lead Researchers of different Groups* Augu.2015-Oct.2015
  - Dynamics and trends of Visual Computing, Media Computing, Data Mining, Computer Graphics and Natural Language Processing are introduced.

## Skills

<b>Computer Languages</b>	C/C++, C#, Matlab, Mathematica
<b>Libraries</b>	OpenGL, OpenCV, Qt, CGAL
<b>Tools</b>	Microsoft Visual Studio, Github
<b>Others</b>	accordion performing, host

## Other Experiences

Volunteer in Kongdian Primary School, teach basic music theories and piano in music courses, answer questions for students' homework.	July. 2015
Accordion performing in New Year Concert and Freshman Welcome Evening of USTC.	2012,2013
Host of Wine-down Party and Family Day of MSRA.	2015,2016
Participate in USTC Star Basketball Game.	2012,2013

## Publications

- [1] Wei Zhang & **Chongyang Bai** & Liyuan Liu & Renqian Luo & Shuo Ren: Word Reciting Module of Microsoft Bing Dictionary UWP(V2.0.0), Microsoft Store, 2016.
- [2] Xiaoming Fu, **Chongyang Bai** and Yang Liu: Efficient Volumetric PolyCube-Map Construction, Computer Graphics Forum (Pacific Graphics) 35(7), 2016.