

# MINGQI GAO

✉ [im.mingqi@gmail.com](mailto:im.mingqi@gmail.com) · 🔗 <https://mingqigao.com/>

## 🏛 EDUCATION

**Chongqing University**, Chongqing, China

Sept. 2014 – Jun. 2017

*M.Eng.* in Computer Science & Technology, Cumulative GPA: 88.0/100

*Research Interests:* Computer Vision, Deep Learning, [Active Contour Model](#), [Level Set Method](#)

**Inner Mongolia University**, Hohhot, China

Sept. 2010 – Jun. 2014

*B.Eng.* in Computer Science & Technology, Cumulative GPA: 81.7/100

## 📖 SELECTED PUBLICATIONS

- **Mingqi Gao**, Hengxin Chen, Shenhai Zheng and Bin Fang. “A factorization based active contour model for texture segmentation”. Proceedings of the IEEE International Conference on Image Processing (ICIP), 2016. [\[project page\]](#), [\[code\]](#).
- **Mingqi Gao**, Hengxin Chen, Shenhai Zheng, Bin Fang and Lin Zhang. “Texture image segmentation using fused features and active contour”. Proceedings of the IEEE International Conference on Pattern Recognition (ICPR), 2016.
- **Mingqi Gao**, Hengxin Chen, Shenhai Zheng and Bin Fang. “Feature Fusion and Non-Negative Matrix Factorization based Active Contours for Texture Segmentation”. Signal Processing, 2018. ([Under Review](#))
- Hengxin Chen, **Mingqi Gao**, and Bin Fang. “An improved active shape model method for facial landmarking based on relative position feature”. International Journal of Wavelets, Multiresolution and Information Processing (IJWMIP), 2017.
- Hengxin Chen, **Mingqi Gao**, Karl Ricanek, Weiliang Xu and Bin Fang. “A Novel Race Classification Method Based on Periocular Features Fusion”. International Journal of Pattern Recognition and Artificial Intelligence (IJPRAI), 2017.
- Shenhai Zheng, Bin Fang, Laquan Li, **Mingqi Gao**, Yi Wang and Kaiyi Peng. “Automatic Liver Lesion Segmentation in CT Combining Fully Convolutional Networks and Non-negative Matrix Factorization”. Proceedings of the International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI) Workshop, 2017.
- Shenhai Zheng, Bin Fang, Laquan Li, **Mingqi Gao**, Rui Chen and Kaiyi Peng. “B-spline based globally optimal segmentation combining low-level and high-level information”. Pattern Recognition (PR), 2018.

## 🏆 HONORS AND AWARDS

- **National Scholarship for Graduate Students** (top 2%), China, 2016
- **2<sup>nd</sup> Prize**, in China Graduate Contest on Application, Design and Innovation of Mobile-Terminal (top 10%), China, 2015
- **3<sup>rd</sup> Prize**, in National Post-Graduate Mathematic Contest in Modeling, China, 2015

## ⚙ SKILLS

- Coding & Platform Development: MATLAB, Python, C++, OpenCV,  $\LaTeX$ , Pytorch
- **English: IELTS 6.5 (with writing 6.5)**

## 📄 PATENT

- Hengxin Chen, **Mingqi Gao**, Xing Zhao. “An Image-based Method for Automatic Gas Meter Reading”. China, 2016. ([Pending](#))

## PROJECTS

---

### **National Natural Science Foundation of China**

Sept. 2014 – Dec. 2015

*Project Participant* Matlab, C++, OpenCV

Study on Several Key Problems for Empirical Mode Decomposition and Its Application on Illumination Pre-processing for Face Image.

- Implemented feature extraction algorithm for face image analysis
- Resulted in 2 journal papers

### **Chongqing University Postgraduates' Innovation Project**

Jan. 2015 – Dec. 2016

*Project Leader* C++, OpenCV, Android

Image-based Mobile Phone Software Development for Automatic Gas Meter Reading

- Developed and Implemented the recognition algorithm for the reading of dial plates
- Resulted in an Android app, and a national award

### **National Training Programs of Innovation for Undergraduates**

Sept. 2013 – Dec. 2014

*Project Leader* C++, OpenCV, MFC

Design of Multi-functional and Interactive Presentation System using Laser Pointer

- Developed and Implemented the detection algorithm for laser points
- Resulted in an app working on Microsoft Windows, and a school award