

# MINGQI GAO

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## 🏛️ EDUCATION

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**University of Warwick**, Coventry, UK 09 / 2019 – Present

Ph.D. candidate in Engineering (joint programme with SUSTech)

**Chongqing University**, Chongqing, China 09 / 2014 – 06 / 2017

M.Eng. in Computer Science & Technology, Cumulative GPA: 88.6/100

**Inner Mongolia University**, Hohhot, China 09 / 2010 – 06 / 2014

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

## 🔍 RESEARCH INTERESTS

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My research lies in Computer Vision, Pattern Recognition and Deep Learning. My scholarly works mainly focus on bringing [Active Contour Model](#) and Deep Neural Network to texture / medical image segmentation. Recently, I am dedicating on developing new algorithms for video object segmentation.

## 👤 WORK EXPERIENCE

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**Chongqing University**, Chongqing, China 07 / 2017 – 06 / 2019

*Research Assistant*, Conducted research in computer vision and assisted graduate students to establish visual computing systems and write papers.

## 📖 SELECTED PUBLICATIONS

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Please find my full publication list from [HERE](#) or my [Google Scholar Profile](#).

- **Mingqi Gao**, Hengxin Chen, Shenhai Zheng and Bin Fang. “[Feature fusion and non-negative matrix factorization based active contours for texture segmentation](#)”. **Signal Processing**, 2019.
- Wei Yu, Bin Fang, Yongqing Liu, **Mingqi Gao**, Shenhai Zheng and Yi Wang. “[Liver vessels segmentation based on 3D residual U-Net](#)”. IEEE Conference on Image Processing (**ICIP**) 2019.
- 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**, 2018.
- 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](#)”. International Workshop on Bio-Imaging and Visualization for Patient-Customized Simulations (**MICCAI Workshop**), 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.
- 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.
- **Mingqi Gao**, Hengxin Chen, Shenhai Zheng, Bin Fang and Lin Zhang. “[Texture image segmentation using fused features and active contour](#)”. IEEE International Conference on Pattern Recognition (**ICPR**), 2016.
- **Mingqi Gao**, Hengxin Chen, Shenhai Zheng and Bin Fang. “[A factorization based active contour model for texture segmentation](#)”. IEEE International Conference on Image Processing (**ICIP**), 2016. [[project page](#)], [[code](#)].

## 🏆 HONORS AND AWARDS

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- **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

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

## 📄 PATENT

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- Hengxin Chen, **Mingqi Gao** and Xing Zhao. "Combustion gas index automatic identification method based on images". China, 2019. (Granted)