Qiaoyong Zhong

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Born on 26 Jan, 1988 in Zhejiang, China
Nationality: Chinese

Education

2009 – Present **Ph.D. student**, *CAS-MPG Partner Institute for Computational Biology*, Shanghai.
Pattern Discovery in Biology Group

2005 – 2009 **B.S. in Biotechnology**, *School of Life Sciences, Nanjing University*, Nanjing.
Majored in Physiology

Experience

06/2011 – 07/2011 **Visiting Student**, *Ruhr University Bochum*, Bochum, Germany.
Bioinformatics Group, Department of Biophysics

PhD Projects
- Image registration between FTIR image and HE stained image of human colorectal cancer
- Webapp: a web application for FTIR tissue image annotation
- Classification of FTIR tissue images using Tree Classifiers

Rotation Project Inferring genetic structure of admixed human populations using SNP data

Bachelor Thesis WSmotif: Prediction of human transcription factor binding sites (TFBSs)

Contests
† NetEase Youdao Nanti Mobile App Contest (2012), team *Candy*, YiRiSanXing, won the 3rd prize of East China area
† RubyVSPython Planet Conquer 2012 April Contest, ranked No. 1/6
† Morgan Stanley Code Storm 2011, team *Blue Moon*, ranked No. 11/20 of Shanghai Jiaotong area
† Red Hat College Students Linux Skills Contest (2010), entered the semi-finals

Open Source Projects
- Voodoo: a PICB file search engine based on mlocate
- more on `https://github.com/xiaoyong`

Languages

English **CET-6 qualified** *can work in English freely (communication, reading and writing)*
Chinese **native language** *Putonghua and other 2 dialects*

Professional Skills

Academic

Introduction | My work focuses on Biomedical Image Processing and I have a good knowledge of Digital Image Processing, Pattern Recognition and Statistics.

Programming

Matlab | Expert, used on a daily basis

C/C++ | Intermediate

Ruby | Expert, for small scripting tasks, and for fun

Shell (Bash) | Intermediate, straightforward way to command the computer

Web Development | Intermediate on HTML, CSS, JavaScript and jQuery. Novice on Ruby based frameworks, e.g. Ruby on Rails and Sinatra

Computer

Operating Systems | Expert on Linux, Mac OS X and Windows

Office & Typesetting | Intermediate on MS Office and LaTeX

Interests

- Basketball
- Hiking
- Movies
- Music

Publications

Qiaoyong Zhong, Daniel Niedieker, Dennis Petersen, Klaus Gerwert, and Axel Mosig. Identifying minimally redundant wavenumbers for vibrational microspectroscopic image analysis. In *10th International Conference on Natural Computation*, 2014. Accepted.

Qiaoyong Zhong, Chen Yang, Frederik Großerüschkamp, Angela Kallenbach-Thieltges, Peter Serocka, Klaus Gerwert, and Axel Mosig. Similarity maps and hierarchical clustering for annotating FT-IR spectral images. *BMC Bioinformatics*, 14(1):333, 2013.