

Junshen Xu

Curriculum Vitae

PERSONAL DETAILS

| | |
|-----------------|--|
| <i>Birth</i> | January 26, 1996 |
| <i>Address</i> | No.10 Zijing Student Apartment, Tsinghua University |
| <i>Phone</i> | (+86)17888830375 |
| <i>Homepage</i> | junshenxu.me |
| <i>Mail</i> | xjs14@mails.tsinghua.edu.cn junshenxu1996@gmail.com |

EDUCATION

| | |
|--|-----------------|
| BSc. Engineering Physics <i>Tsinghua University</i> GPA:95/100, Ranking:1/143 | 2014.08-2018.07 |
| BSc. Pure and Applied Mathematics (Second Degree) <i>Tsinghua University</i> GPA:93/100 | 2015.08-2018.07 |
| UGVR <i>Stanford University</i> | 2017.06-2017.09 |

RESEARCH EXPERIENCE

| | |
|---|-----------------|
| Joint Reconstruction with Motion Correction in PET/MRI <i>Tsinghua University</i> Researched joint reconstruction and motion correction of PET/MRI Designed and implemented the algorithm The research achievements were submitted to ISMRM 2017 | 2015.10-2016.11 |
| Wearable PET <i>Tsinghua University</i> Implemented a wearable PET device Responsible for PET image reconstruction Took part in Challenge Cup Competition of Science Achievement in Tsinghua and won Second Prize | 2015.12-2016.05 |
| Magnetic Resonance Imaging of the Fetal Brain <i>Tsinghua University</i> Researched motion correction and 3D reconstruction of multi-slice fetal brain MR images | 2016.02-2016.09 |
| Research on Attenuation Correction of PET/MRI <i>Tsinghua University</i> Estimated attenuation map based on T2 and UTE MR images using machine learning methods | 2016.05-2016.11 |

The research achievements were submitted to ISMRM 2017
Supported by Tsinghua University Initiative Scientific Research Program

Ultra-low-dose PET Reconstruction

2017.06-2017.09

Stanford University

Predicted standard-dose PET images from low-dose PET images

SKILLS

| | |
|------------------|--|
| <i>Languages</i> | Dutch (mother tongue) English (fluent) German (fluent) |
| <i>Software</i> | MATLAB, L ^A T _E X |

SCHOLARSHIPS & AWARDS

2014—2015 National Scholarship

2015—2016 National Scholarship

The 34th Challenge Cup Competition of Science Achievement in Tsinghua, Second Prize

PUBLICATIONS

[1]**Junshen Xu**, Yibo Zhao, Kui Ying. Joint Reconstruction of Simultaneous PET/MR Imaging with Motion Correction Using a B-spline Motion Model. ISMRM 2017

[2]Chang Gao, **Junshen Xu**, Bowen Fan, Jiajin Liu, Kui Ying. Comparison of UTE based Attenuation Correction Methods for simultaneous PET/MR Imaging of the Children's Brain. ISMRM 2017

[3]Yilin Niu, Enhao Gong, **Junshen Xu**, John Pauly, Greg Zaharchuk. Improved Prediction of the Final Infarct from Acute Stroke Neuroimaging Using Deep Learning. ISC 2018 (submitted)

[4]Yilin Niu, Enhao Gong, **Junshen Xu**, John Pauly, Greg Zaharchuk. Multi-scale Patch-wise 3D CNN for Ischemic Stroke Lesion Segmentation. ISLES 2017 (submitted)

[5]**Junshen Xu**, Enhao Gong, John Pauly, Greg Zaharchuk. 200x Low-dose PET Reconstruction using Deep Learning. IEEE Trans. Med. Imaging (submitted)

[6]**Junshen Xu**, Enhao Gong, Yilin Niu, Mehdi Khalighi, John Pauly, Greg Zaharchuk. Ultra-low-dose PET Reconstruction enabled by Deep Learning and Simultaneous PET/MR. ISMRM-SNMMI Co-Provided Workshop on PET/MRI 2017 (submitted)

[7]**Junshen Xu**, Enhao Gong, Yilin Niu, John Pauly, Greg Zaharchuk. Evaluation on the Contribution of Multi-contrast MRI to Low-dose PET Reconstruction. ISMRM-SNMMI Co-Provided Workshop on PET/MRI 2017 (submitted)