# Yi He

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Google Scholar: https://scholar.google.de/citations?user=FOi4EIIAAAAJ&hl=en

#### **CURRENT POSITION**

01.2018 Postdoc, Danish Research Centre for Magnetic Resonance, Copenhagen University Hospital Hvidovre, Denmark

## EDUCATION

01.2014 - 12.2017

Ph.D. student in Department High-field Magnetic Resonance, Max Planck Institute for Biological Cybernetics, Tuebingen, Germany

2008 - 2011 Master of Engineering in Biomedical Engineering, Southeast University, Nanjing, China

2004 - 2008 Bachelor of Engineering in Biomedical Engineering, Central South University, Changsha, China

## EMPLOYMENT EXPERIENCE

2013 Research Associate, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China

2011 - 2013 Research Assistant, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China

## MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2014 - Present Trainee Member, International Society for Magnetic Resonance in Medicine (ISMRM)

#### HONORS AND AWARDS

- 2017 Summa Cum Laude Merit Award (ISMRM, top 5%), Honolulu, USA
- 2016 Outstanding poster award, Gordon Research Conferences in vivo MR, Andover, USA
- 2015 Summa Cum Laude Merit Award (ISMRM, top 5%), Toronto, Canada
- 2015 Educational Stipend ISMRM
- 2014 2017 Doctoral Scholarships from Max Planck Society

#### IMPACT OF PUBLICATIONS

Total Citations = 265 h-index = 7 i10-index = 7

# **PUBLICATIONS (8)**

- 1. <u>He Y</u>, Wang M, Chen X, Pohmann R, Polimeni J, Scheffler K, Rosen B, Kleinfeld D and Yu X, Ultra-slow single-vessel BOLD and CBV-based fMRI spatiotemporal dynamics and correlations with neuronal intracellular calcium signals. **Neuron**, 2018, **in press**.
- 2. <u>He Y</u>, Wang M, Yu X. Directly mapping the single-vessel hemodynamic signal with Multi-echo Line-scanning fMRI (MELS-fMRI), **Journal of Cerebral Blood Flow and Metabolism, under revision.**
- 3. Yu X, <u>He Y</u>, Wang M, Merkle H, Dodd S, Afonso S and Koretsky AP. Sensory and optogenetically driven single-vessel fMRI. **Nature Methods**, 2016, 13: 337-340. doi:10.1038/nmeth.3765.

- Wang M, <u>He Y</u>, Sejnowski T, Yu X. Positive and negative BOLD signals are regulated by Ca<sup>2+-</sup> mediated gliovascular interactions. Proceedings of the National Academy of Sciences, 2018, in press.
- Miao F, Cheng Y, <u>He Y</u>, He Q and Li Y. A Wearable Context-Aware ECG Monitoring System Integrated with Built-in Kinematic Sensors of the Smartphone. Sensors. 2015, 15(5): 11465-11484.
- 6. Miao F, <u>He Y</u>, Liu J, Li Y and Ayoola I. Identifying typical physical activity on smartphone with varying positions and orientations. Biomedical Engineering. 2015, 14(1:32): 1-15.
- <u>He Y</u> and Li Y. Physical Activity Recognition Utilizing the Built-In Kinematic Sensors of a Smartphone. International Journal of Distributed Sensor Networks. 2013, Article ID 481580: 1-10.
- 8. <u>He Y</u>, Li Y and Yin C. Falling-Incident Detection and Alarm by Smartphone with Multimedia Messaging Service. E-Health Telecommunication Systems and Networks. 2012, 1: 1-5.

# TALKS (4)

- <u>He Y</u>, Pohmann R, Scheffler K, Kleinfeld D, Rosen B and Yu X (April-25-2017) Abstract Talk: Mapping the task-related and resting-state vascular dynamic network connectivity in rats and humans, 25th Annual Meeting and Exhibition of the International Society for Magnetic Resonance in Medicine (ISMRM 2017), Honolulu, HI, USA 304-305.
- <u>He Y</u>. Map Task-Related and Resting-State Vascular Network Connectivity with Single-Vessel SSFP-fMRI, Gordon Research Conference: In Vivo Magnetic Resonance - MRI Inside-Out and Outside-In, Andover, NH, USA. (July-2016)
- 3. <u>He Y</u>, Merkle H and Yu X (June-2-2015) Abstract Talk: Single Venule Multi-Echo Line-Scanning fMRI (MELS-fMRI), 23rd Annual Meeting and Exhibition of the International Society for Magnetic Resonance in Medicine (ISMRM 2015), Toronto, Canada(0361).
- Wang M, <u>He Y</u> and Yu X (April-24-2017) Abstract Talk: Simultaneous fMRI with GCaMP6mediated neuronal and astrocytic calcium signal recording, 25th Annual Meeting and Exhibition of the International Society for Magnetic Resonance in Medicine (ISMRM 2017), Honolulu, HI, USA 122.

# POSTERS (7)

- 1. <u>He Y</u>, Wang M, Chen X and Yu X (April-27-2017): Identify the neural basis of vascular dynamic network connectivity with high-field fMRI, 25th Annual Meeting and Exhibition of the International Society for Magnetic Resonance in Medicine (ISMRM 2017), Honolulu, HI, USA.
- Wang M, <u>He Y</u> and Yu X (April-25-2017): A novel role of intrinsic astrocytic calcium spikes to mediate brain states through central/dorsal thalamic nuclei, 25th Annual Meeting and Exhibition of the International Society for Magnetic Resonance in Medicine (ISMRM 2017), Honolulu, HI, USA.
- 3. <u>He Y</u>, Zhang K and Yu X (June-2-2015): Model the single-venule fMRI signal at the millisecond scale, 23rd Annual Meeting and Exhibition of the International Society for Magnetic Resonance in Medicine (ISMRM 2015), Toronto, Canada.
- Wang M, <u>He Y</u>, Tang Y, Merkle H and Yu X (June-3-2015): Identify the "single unit" of neurovascular coupling by single-vessel fMRI and optogenetics, 23rd Annual Meeting and Exhibition of the International Society for Magnetic Resonance in Medicine (ISMRM 2015), Toronto, Canada.
- 5. Wang M, <u>He Y</u>, Tang Y, Balla DZ, Qian C and Yu X (June-3-2015): Map the light-driven fMRI signal in combination with in vivo recording, 23rd Annual Meeting and Exhibition of the International Society for Magnetic Resonance in Medicine (ISMRM 2015), Toronto, Canada.
- Scheffler K, Ehses P, <u>He Y</u>, Merkle H and Yu X (June-3-2015): Functional imaging at 14.1T using high-resolution pass band bSSFP, 23rd Annual Meeting and Exhibition of the International Society for Magnetic Resonance in Medicine (ISMRM 2015), Toronto, Canada.

 Wang M, <u>He Y</u>, Tang Y, Balla D and Yu X (March-19-2015): Light-driven fMRI and Electrophysiological Responses in Rat Brain, 10th Annual Meeting of the European Society for Molecular Imaging (EMIM 2015), Tübingen, Germany.

# SOFTWARE COPYRIGHT (1)

1. Li Y, <u>He Y</u>, Shangguan W. Health Management Software based on Android-based Smart TV and Set-top Box, Chinese software copyright, 2012SR121512.