

# Overseas Chinese Society for Magnetic Resonance in Medicine

国际华人医学磁共振学会

# 2019 OCSMRM ChinaNight

May 15, 2019, 6:30 pm - 9:30 pm

Hotel Intercontinental Montreal, Montréal, Canada

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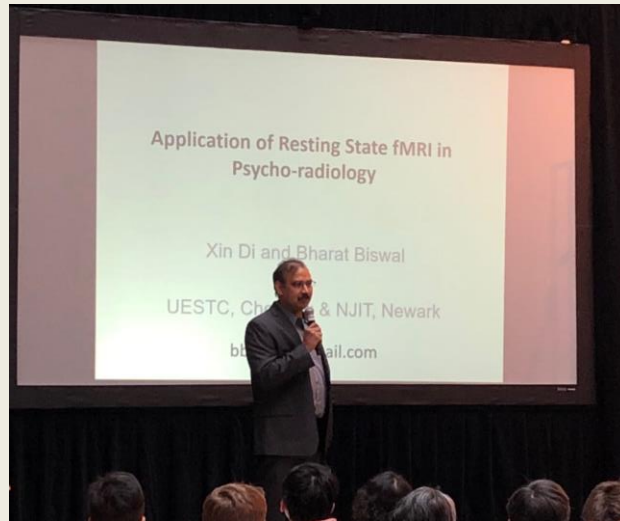


# Roentgen Lecture

## Application of Resting State fMRI in Psycho-radiology



**Bharat B. Biswal, Ph.D.**  
New Jersey Institute of Technology



# **OCSMRM 2019 Annual Report**

# OCSMRM

We are a scientific, educational, and professional organization devoted to the field of magnetic resonance in medicine.

# **OCSMRM Presidents**

**Gary Shen: 1991-2000**

**Jianhui Zhong: 2000-2002**

**Jia-Hong Gao: 2002-2004**

**Xiaoping Hu: 2004-2006**

**Debiao Li: 2006-2008**

**Qun Chen: 2008-2010**

**Xiaohong Joe Zhou: 2010-2011**

**Yi Wang: 2011-2012**

**Chun Yuan: 2012-2013**

**Yihong Yang: 2013-2014**

**Yiping Du: 2014-2015**

**Wei Chen: 2015-2016**

**Ed X. Wu: 2016-2017**

**Xiaoliang Zhang 2017-2018**

**Qiyong Gong 2018-2019**

# Broad of Trustees (2018-2019)



Qiyong Gong



Du Jiang



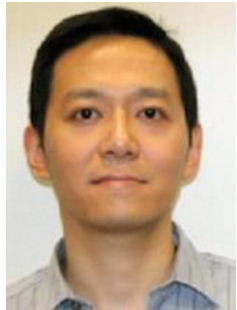
Meiyun Wang



Xiaoliang Zhang



Ed Wu



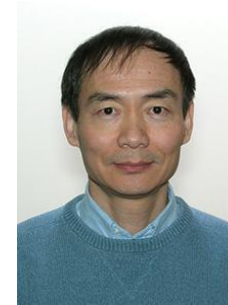
Hao Huang



Wei Chen



Yiping Du



Yihong Yang



Chuan Yuan



Yi Yang



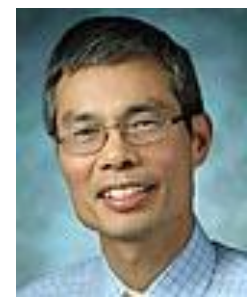
Hui Mao



Xiaohong Zhou



Hua Guo



Jinyuan Zhou



# OCSMRM 2019 Opening Lecture & Career Development Forum

on May 13, 2019



**Program :**

**1) OCSMRM 2019  
Opening Lecture and  
Career Development Forum**

Time: Monday, May 13, 19:00 - 21:30  
Place: Hotel Intercontinental Montreal, Room M. Ravel  
Address: 360, rue Saint-Antoine Ouest, Montréal, QC H2Y 3X4, Canada  
Moderators: Qiyong Gong, Jiang Du, and Meiyun Wang  
Buffet will be served at 18:30



# **OCSMRM Activities during the past year**



# *Value of MRI in Medicine* published

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EDITORIAL

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## Value of MRI in Medicine: More Than Just Another Test?

Edwin J.R. van Beek, MD, PhD,<sup>1\*</sup> Christiane Kuhl, MD, PhD,<sup>2</sup>  
Yoshimi Anzai, MD, MPH,<sup>3</sup> Patricia Desmond, MD,<sup>4</sup> Richard L. Ehman, MD,<sup>5</sup>  
Qiyong Gong, MD, PhD,<sup>6</sup> Garry Gold, MD, PhD,<sup>7</sup> Vikas Gulani, MD, PhD,<sup>8</sup>  
Margaret Hall-Craggs, MD,<sup>9</sup> Tim Leiner, MD, PhD,<sup>10</sup> C.C. Tschoyoson Lim, MBBS,<sup>11</sup>  
James G. Pipe, PhD,<sup>12</sup> Scott Reeder, MD, PhD,<sup>13</sup> Caroline Reinhold, MD, MSc,<sup>14</sup>  
Marion Smits, MD, PhD,<sup>15</sup> Daniel K. Sodickson, MD, PhD,<sup>16</sup>  
Clare Tempany, MB, BAO, BCH,<sup>17</sup> H. Alberto Vargas, MD, MPH,<sup>18</sup> and  
Meiyun Wang, MD, PhD<sup>19</sup>



# Contribution to *Neuroimaging Clinics of North America; Psychoradiology*



Thirteen experts of psychoradiology from 12 top institutes worldwide contributed to the edition



# OCSMRM in CCR 2018

OCSMRM members (n=25) gave presentations

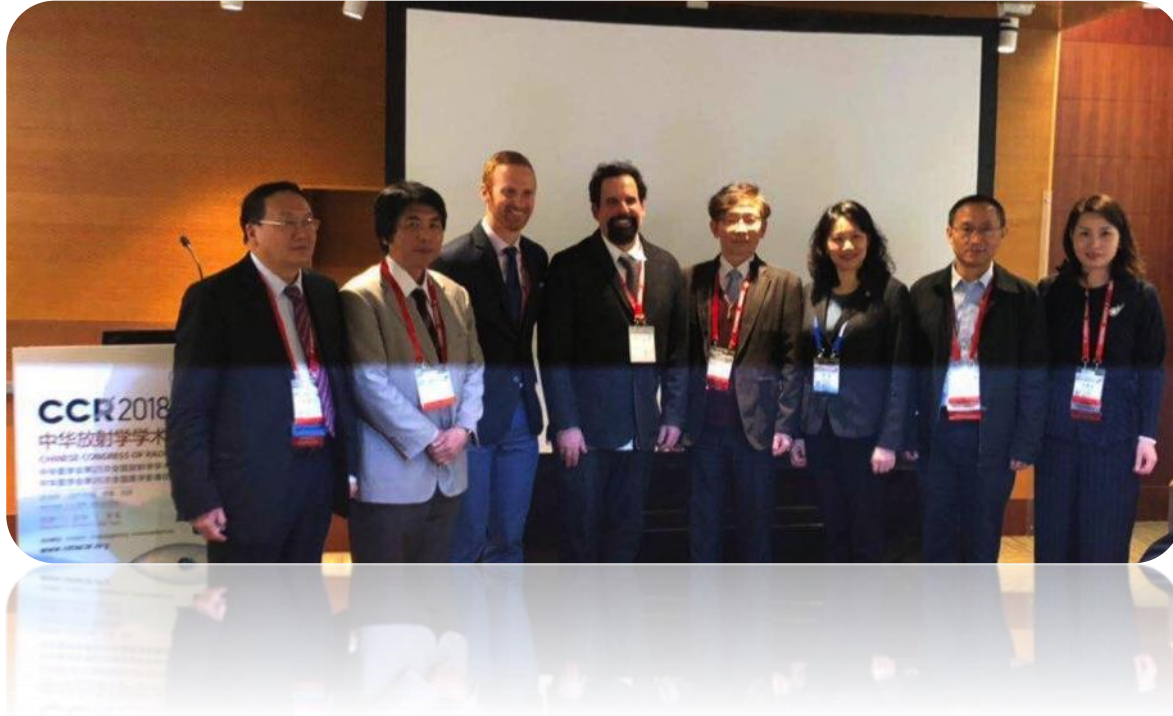
Name	Institution
Kannie Chan	City University of Hong Kong
Wei Chen	University of Minnesota
Jiang Du	University of California San Diego
James C. Gee	University of Pennsylvania
Qiyong Gong	Sichuan University
Chang Leo	Harvard University
Ye Li	Shenzhen Institutes of Advanced Technology
Guanshu Liu	Johns Hopkins University
Hanzhang Lu	Johns Hopkins University
Zhengrong Lv	Case Western Reserve University
Hui Mao	Emory University
Qiwen Mu	North Sichuan Medical University
Yi Wang	Cornell University

Name	Institution
Yunmei Wang	Henan Provincial People's Hospital
Ze Wang	University of Pennsylvania
Ed Wu	University of Hong Kong
Yang Xia	Oakland University
Qing Yang	Pennsylvania State University
Chun Yuan	University of Washington
Xiaoliang Zhang	University of California San Francisco
Hairong Zheng	Shenzhen Institutes of Advanced Technology
Jianhui Zhong	University of Rochester
Jinyuan Zhou	Johns Hopkins University
Xiaohong Zhou	University of Illinois at Chicago
Xin Zhou	Wuhan Institute of Physics and Mathematics





# JSMRM, KSMRM and ISMRM in CCR 2018



# OCSMRM in KSMRM 2019



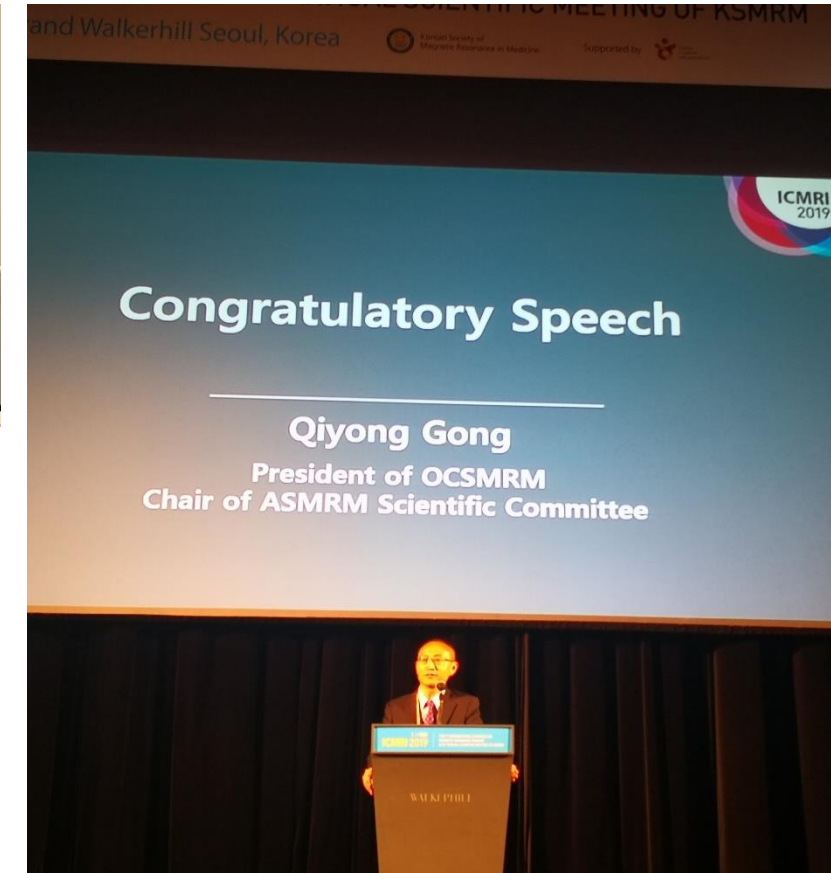
PL3 CV >

**Zhi-Pei Liang**

University of Illinois at Urbana-Champaign  
USA

11:00-12:20

**Plenary Lecture III&IV**  
**PL3: Zhi-Pei Liang (Ultrafast MR Spectroscopic Imaging) /**  
**PL4: Jong Chul Ye (AI-powered Fast MR Acquisition)**





# OCSMRM in ASMRM 2019

- Established Asian Society of Magnetic Resonance in Medicine (ASMRM) with other Asian countries
- The 1<sup>st</sup> Annual Meeting of ASMRM coming soon on 2019.7.24-7.26, Shanghai, China







# **OCSMRM**

## **Our Contribution in ISMRM 2019**

# We Participate in ISMRM 2019

## • ISMRM Senior Fellows (n=18)

Xiaoping Hu 2004	Chien Ho 2013
Vivian S. Lee 2006	Ed X. Wu 2013
Debiao Li 2006	Wei Chen 2016
Linda Chang 2008	Qiyong Gong 2016
Chun Yuan 2008	Yihong Yang 2017
Zhi-Pei Liang 2010	Hanzhang Lu 2018
Christine Chung 2012	Jie Tian 2018
Yi Wang 2012	Yang Xia 2018
Xiaohong Zhou 2012	<b>Kenneth Kwong, 2019</b>

## • ISMRM Junior Fellows (n=43)

Kevin C. Chan 2010	Kun Qing 2014	Russell Chan 2018
Jun Hua 2010	Lirong Yan 2014	Fei Li 2018
Holden H. Wu 2010	Li Feng 2015	Shanshan Jiang 2018
Weiyong Dai 2011	Fang-Cheng Yeh 2015	Fang Liu 2018
Yen-Yu Ian Shih 2011	Yi Zhang 2015	Qiuyun Fan 2018
Dingxin Wang 2011	Jie Luo 2016	<b>Yun Jiang 2019</b>
Silun Wang 2011	Chao Ma 2016	<b>Alex Tzw Lung Leong 2019</b>
Xin Yu 2011	Dan Wu 2016	<b>Jiaen Liu 2019</b>
Jeff Lei Zhang 2011	Dan Ma 2017	<b>Ya-Jun Ma 2019</b>
Wei Li 2012	Fan Lam 2017	<b>Minhui Ouyang 2019</b>
Deqiang Qiu 2012	Yibin Xie 2017	<b>Zhiyong Zhang 2019</b>
Qi Yang 2012	Chengcheng Zhu 2017	
Zhaoyang Fan 2013	Yan Lin 2017	
Hui Han 2013	Ruiliang Bai 2017	
Peiying Liu 2013	Tsen-Hsuan Lin 2017	
Hsiao-Ying Wey 2013	Audrey Fan 2018	

# We Participate in ISMRM 2019

- Oversea Chinese in ISMRM Committee : n=45
- Broad of Trustees: n=1
- Chinese Members in Study Group: n= 9



**Meiyun Wang, M.D., Ph.D.,**

Radiologist, Professor and Director of the Medical  
Imaging Center of Henan Province

Chair of the Department of Radiology

Henan Provincial People's Hospital

Study Group	Name	Position
Musculoskeletal MR	Gregory Chang	Chair
	Eric Y. Chang	Secretary
MR Spectroscopy	Alexander P. Lin	Chair
Current Issues in Brain Function	Xiaoping P. Hu	Chair
	Qiyong Gong	Chair
Psychiatric MR Spectroscopy & Imaging	Meiyun Wang	Secretary
	Fei Li	Trainee Representative
	Xinyu Hu	Past Trainee Representative
Pediatric MR	Duan Xu	Chair



# We Participate in ISMRM 2019

- **Annual Meeting Program Committee: n = 11**

Lijun Bao, Ph.D.  
Zhaolin Chen, Ph.D.  
Hai-Ling Margaret Cheng, Ph.D.  
Qiyong Gong, M.D., Ph.D.  
Hua Guo, Ph.D.  
Peng Hu, Ph.D.  
Yunhong Shu, Ph.D.  
Meiyun Wang, M.D., Ph.D.  
Yi-Fen Yen, Ph.D.  
Xin Yu, Ph.D.  
Qiuyun Fan, Ph.D.

- **Education Committee: n = 7**

Chuan Huang, Ph.D.  
Hao Huang, Ph.D.  
Peiying Liu, Ph.D.  
Dan Ma, Ph.D.  
Jin Wang, Ph.D.  
Junzhong Xu, Ph.D.  
Shanshan Jiang, M.D., Ph.D.

- **Trainee Advisory Working Group: n = 4**

Qiuyun Fan, Ph.D.  
Shanshan Jiang, M.D., Ph.D.  
Fei Li, M.D.  
Fang Liu, Ph.D.

- **Subcommittee on the Young Investigator Awards: n = 4**

Houchun Harry Hu, Ph.D.  
Yiping P. Du, Ph.D.  
Yulin Ge, M.D.  
Yongxian Qian, Ph.D.

- **Publications Committee: n = 2**

Jun Lu, Ph.D.  
Jinyuan Zhou, Ph.D.

- **Chapters Committee: n=2**

Fuhua Yan, M.D., Ph.D.  
Fang Liu, Ph.D.

- **Subcommittee on Trainee Stipends: n = 2**

Kejia Cai, Ph.D.  
Peiying Liu, Ph.D.

- **Workshop & Study Group Review Committee: n = 2**

Zhipeng Cao, Ph.D.  
Fei Li, M.D.

# We Participate in ISMRM 2019

- Chinese Mediators n = 33

- Power Pitch: n=6
- Oral: n=16
- Educational Course (including weekday Course/Sunrise Session/Weekend Course) : n=21

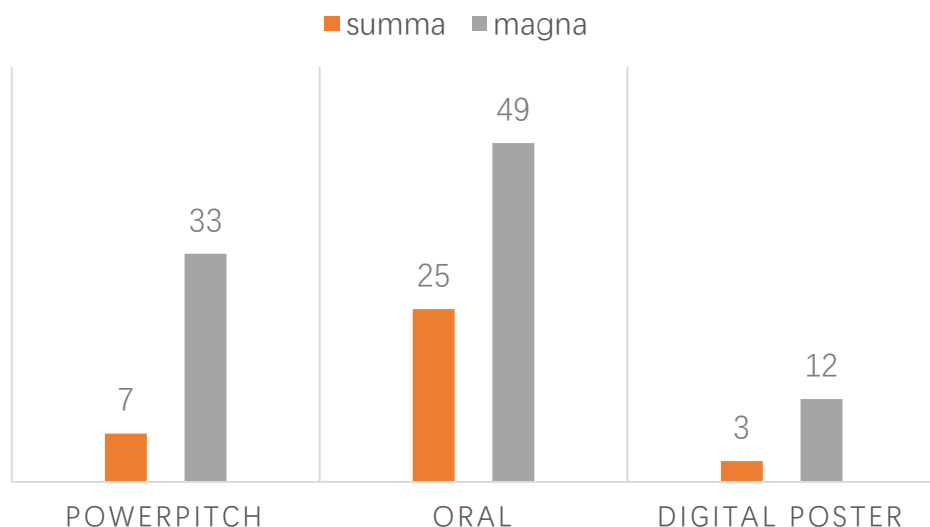
- Chinese Organizers n = 22

THURSDAY • 16 May 2019		PLENARY SESSION Plenary Hall - Room 517
10:30	Young Investigators Award Presentation	Lawrence L. Wald, Ph.D., 2019-2020 ISMRM President
		<u>Standardization in MRI: Why Is It So Challenging?</u> Organizers: Mustafa Bashir & Qiyong Gong
10:45	Standardization of Machines & Acquisition Schemes	Mitchell D. Schnall, M.D., Ph.D.
Educational Session <u>fMRI in the Clinic</u> Organizer: Hanzhang Lu	Member-Initiated Symposium ( <i>no CME credit</i> ) <u>Mapping BBB Permeability: From Contrast- to Noncontrast-Enhanced Imaging</u> Organizer: Danny Wang	Ince D. Calhoun, Ph.D.
		Siesbeth Reneman, M.D., Ph.D.

- Educational Courses given by Chinese Speakers: n=34

# We Get Talents in ISMRM 2019

- 2019 abstracts: ~1400 Chinese as first authors
  - Oral presentations: n=216
  - Power Pitch Presentations: n=117
- Awarded Abstracts



- Awarded Symposium Abstracts
  - Lianqing Zhang, *Anatomic Alterations in Amygdala Subregions in Medication-free Patients with Obsessive-Compulsive Disorder*, ISMRM Psychiatric MR Spectroscopy & Imaging Study Group, 3rd Place of Trainee competition



# We Get Talents in ISMRM 2019

- Young Investigator Award Nominee:



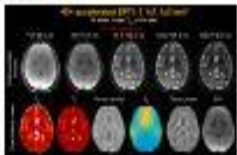
Fuyixue Wang  
Graduate student (PhD), MIT

0111.

## Echo Planar Time-resolved Imaging (EPTI)

Fuyixue Wang, Zijing Dong, Timothy Reese, Berkin Bilgic, Mary Manhard, Jingyuan Chen, Jonathan Polimeni, Lawrence Wald, Kawin Setsompop

A new technique, termed Echo Planar Time-resolved Imaging (EPTI), was developed to address EPI's geometric distortion and blurring, and to provide temporal signal evolution information across the EPI readout window. Using a small number of EPTI-shots, a time-series of multi-contrast images can be created free of distortion and blurring (up to 100  $T_2$ - and  $T_2^*$ -weighted images). This should make EPTI useful for numerous applications. Here, we demonstrated EPTI in brain to provide i) rapid simultaneous quantitative mapping of  $T_2$ ,  $T_2^*$ , proton density and tissue phase, as well as ii) multi-echo and quantitative  $T_2^*$  fMRI.





# Congratulatory Speech

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## Speech of MR Society Leadership

**Pia Sundgren, ISMRM President**

**Garry Gold, ISMRM Past President**



**Yeon Hyeon Choe, KSMRM President**

**Kei Yamada, JSMRM Leader**





# Honorary Lifetime Member

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## **Xiaohong Joe Zhou, Ph.D.**

Professor of Radiology, Neurosurgery, and Bioengineering  
Chief Medical Physicist  
Director of 3T MR Research Program  
Director of MR Physics

University of Illinois at Chicago

The research in my group is focused primarily on developing diffusion imaging techniques to improve cancer diagnosis, guide surgery, and monitor treatment efficacy. We are particularly interested in developing non-EPI-based data acquisition techniques to achieve high spatial resolution. With the high resolution capability, we are presently exploring a number of applications, including tracking tumor cell infiltration along the white-matter fiber tracts, early detection of tumor recurrent sites, and probing tissue cellularity change during radiation therapy.



# OCSMRM Young Investigator Award

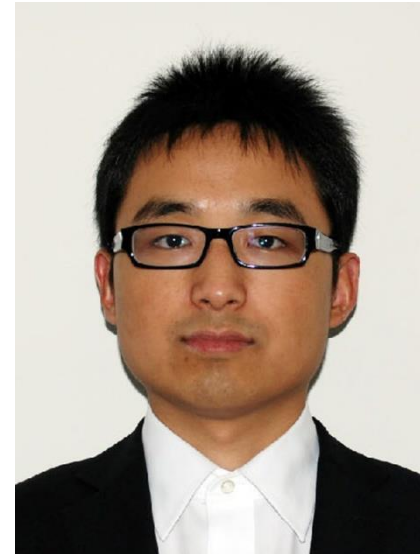
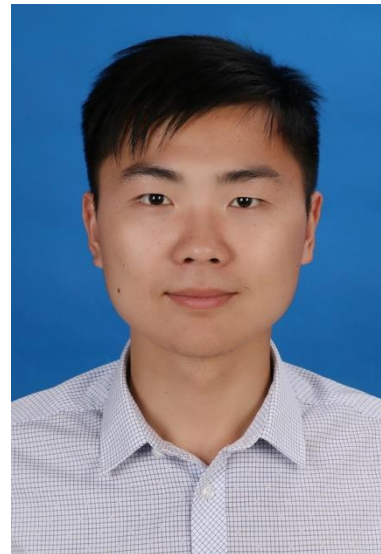
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(3<sup>rd</sup> Place :3, 2<sup>nd</sup> Place: 2, 1<sup>st</sup> Place:2)



# OCSMRM Young Investigator Award (YIA)

## 3<sup>rd</sup> Place



**Ruibin Liu, Ph.D.**  
Ph.D. Student  
Zhejiang University

**Mentor: Yi Zhang**

**Magn Reson Med. 2019 May;81(5):2915-2923.**

**Improved chemical exchange saturation transfer imaging with real-time frequency drift correction.**

**Liu R, Zhang H, Niu W, Lai C, Ding Q, Chen W, Liang S, Zhou J, Wu D, Zhang Y.**

# OCSMRM Young Investigator Award (YIA)

## 3<sup>rd</sup> Place



**Zheng Han, Ph.D.**  
Postdoc  
Johns Hopkins University

**Mentor: Guanshu Liu**

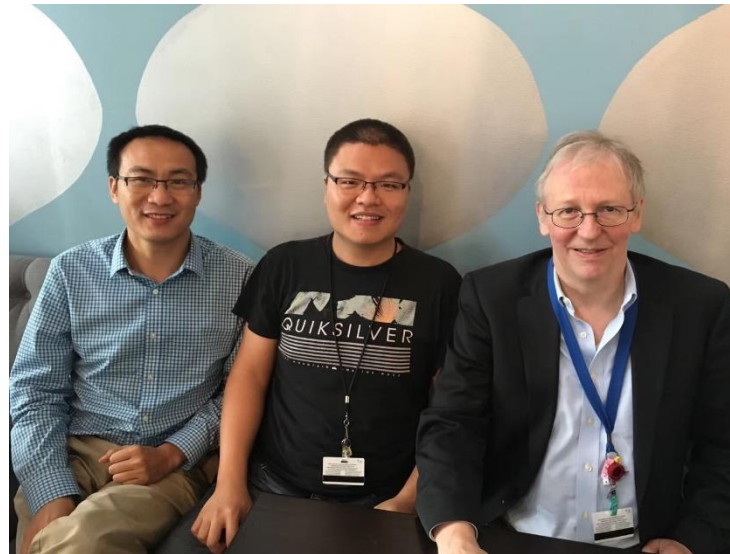
**Cancer Res. 2019 Apr 2. pii: canres.3565.2018.**

**Molecular imaging of deoxycytidine kinase activity using deoxycytidine-enhanced CEST MRI.**

**Han Z, Li Y, Zhang J, Liu J, Chen C, van Zijl PCM, Liu G.**

# OCSMRM Young Investigator Award (YIA)

## 3<sup>rd</sup> Place



**Lin Chen, Ph.D.**  
Postdoc  
Johns Hopkins University

**Mentor: Peter van Zijl**

**Neuroimage. 2019 Mar;188:380-390.**

**Protein aggregation linked to Alzheimer's disease revealed by saturation transfer MRI.**

**Chen L, Wei Z, Chan K W Y, Cai S, Liu G, Lu H, Wong P C, van Zijl P C M, Li T, Xu J.**

# OCSMRM Young Investigator Award (YIA)

## 2<sup>nd</sup> Place

OVERSEAS CHINESE SOCIETY FOR  
**OCSMRM**  
MAGNETIC RESONANCE IN MEDICINE

Annual Meeting of OCSMRM  
Montreal, Quebec, Canada  
13 - 15 May 2019

Young Investigator Award  
Second Place

Presented to  
**Congyu Liao**  
on 15 May 2019

Qiyong Gong, M.D. Ph.D.  
OCSMRM President

Xiaojuan Li, Ph.D.

Xin Yu, Sc.D.  
YIA Selection Committee Co-Chairs



**Congyu Liao, Ph.D.**  
Postdoc  
Harvard Medical School

**Mentor: Jianhui Zhong**

**Radiology. 2018 Sep;288(3):804-812.**

**Detection of Lesions in Mesial Temporal Lobe Epilepsy by Using MR Fingerprinting.**

**Liao C, Wang K, Cao X, Li Y, Wu D, Ye H, Ding Q, He H, Zhong J.**



# OCSMRM Young Investigator Award (YIA)

## 2<sup>nd</sup> Place



**Yajun Ma, Ph.D.**  
Assistant project scientist  
University of California

**Mentor: Eric Chang**

**Investigative Radiology. 2019 (Accept).**

**AcidoCEST-UTE MRI for the Assessment of Extracellular pH of Joint Tissues at 3T**

**Ma Y, High RA, Tang Q, Wan L, Du J, Chang EY.**

# OCSMRM Young Investigator Award (YIA)

## 1<sup>st</sup> Place

OVERSEAS CHINESE SOCIETY FOR  
**OCSMRM**  
MAGNETIC RESONANCE IN MEDICINE

Annual Meeting of OCSMRM  
Montreal, Quebec, Canada  
13 - 15 May 2019

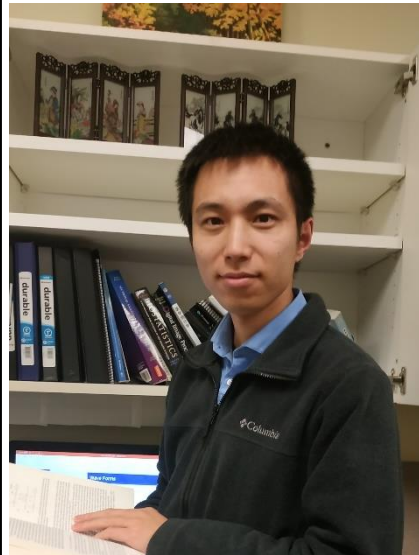
Young Investigator Award  
First Place

Presented to  
**Zheng Zhong**  
on 15 May 2019

Qiyong Gong, M.D. Ph.D.  
OCSMRM President

Xiaojuan Li, Ph.D.  
YIA Selection Committee Co-Chairs

Xin Yu, Sc.D.  
YIA Selection Committee Co-Chairs



**Zheng Zhong, Ph.D.**

Ph.D. Student

University of Illinois at Chicago

**Mentor: Xiaohong Joe Zhou**

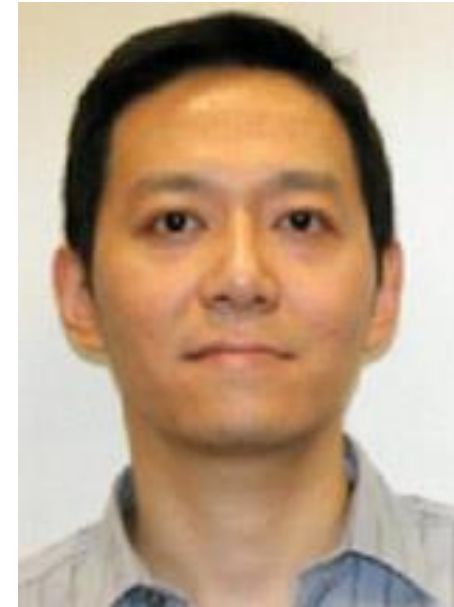
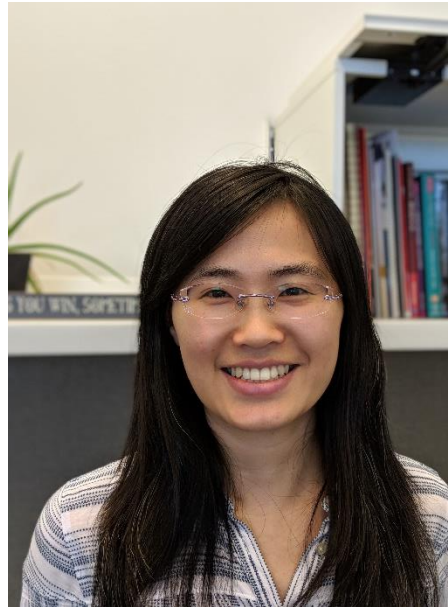
**Radiology. 2019 Apr;291(1):149-157.**

**High-Spatial-Resolution Diffusion MRI in Parkinson Disease: Lateral Asymmetry of the Substantia Nigra.**

**Zhong Z, Merkitch D, Karaman MM, Zhang J, Sui Y, Goldman JG, Zhou XJ.**

# OCSMRM Young Investigator Award (YIA)

## 1<sup>st</sup> Place



**Minhui Ouyang, Ph.D.**

Research Scientist  
Children's Hospital of  
Philadelphia

**Mentor: Hao Huang**

Proc Natl Acad Sci U S A. 2019 Feb 19. pii: 201812156.

**Differential cortical microstructural maturation in the preterm human brain with diffusion kurtosis and tensor imaging.**

**Ouyang M**, Jeon T, Sotiras A, Peng Q, Mishra V, Halovanic C, Chen M, Chalak L, Rollins N, Roberts TPL, Davatzikos C, **Huang H.**



# Outstanding Contribution Award

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Outstanding Contribution Award -- This prestigious award is given by the OCSMRM to those who made tremendous contributions to advancing MRI and significantly promoting our OCSMRM worldwide.

Winner	Institute
CHEN, Min	Department of Radiology, Beijing Hospital, China
YANG, Yihong	National Institutes of Health, USA
YU, Chunshui	Department of Radiology, Tianjin Medical University General Hospital
ZHANG, Xiaoliang	University of California, San Francisco, USA
ZHENG, Hairong	Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China





# Outstanding Research Award

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Outstanding Research Award recognizes the important research work presented at the ISMRM 2019 to promote the impact of OCSMRM in the international MR community. Selection of this award will be based on the accepted abstracts to the ISMRM 2019 annual meeting. The first author of the abstract can be student, postdoc, faculty, or MR researcher at any level, but must be an OCSMRM member or closely associated with OCSMRM.



Winner	Institute
BAI, Yan	Department of Radiology, Henan Provincial People's Hospital, China
CHEN, Qiaoyan	Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China
HUANG, Peizhou	State University of New York at Buffalo, USA
LAI, Wentao	Department of Radiology, Shenzhen Mental Health Center, Shenzhen Kangning Hospital, Shenzhen, China
MA, Chao	Massachusetts General Hospital, Harvard Medical School, Boston, USA
WU, Mei	Department of Radiology, University of California, San Diego, San Diego, CA, United States
YANG, Cheng	Huaxi MR Research Center, Department of Radiology, West China Hospital of Sichuan University
ZHANG, Yuxin	Department of Medical Physics, University of Wisconsin-Madison, Madison, Wisconsin USA

# Handover Ceremony





# New Members in Broad of Trustee



**Allen Song, Ph.D.**

**Duke University**

Professor and Director of Brain Imaging and Analysis Center



**Xiaojuan Li, Ph.D.**

**Lerner Research Institute, Cleveland Clinic**

Professor of the Department of Biomedical Engineering

Director of the Program of Advanced Musculoskeletal Imaging

# 2019 OCSMRM Election for Secretary

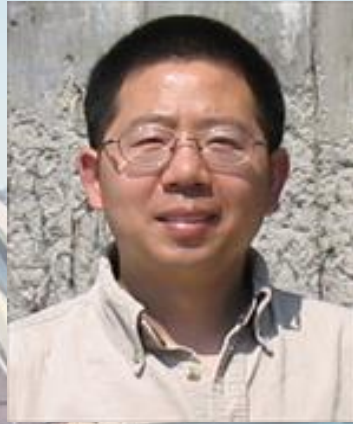


**Hanzhang Lu, Ph.D.**

**Johns Hopkins University School of Medicine**

Professor and Chief of Neurofunction Section at the  
Department of Radiology

# President in 2019-2020



**Jiang Du, Ph.D.**

**University of California, San Diego**

**Professor of Radiology**

Dr. Du's research interests have focused on ultrashort TE (UTE) imaging of short T2 tissues (bone, tendons, menisci, ligaments, calcification, iron, myelin, etc.) in the musculoskeletal and neurological systems.

See you next year in Sydney!

# Acknowledgements

## Executive Committee of OCSMRM

Qiyong Gong, President

Jiang Du, Vice President

Fuhua Yan, CSMRM Representative

Xiaoqi Huang, Program Chair

Xiaoliang Zhang, Past President

Meiyun Wang, Secretary

Wei Chen, Treasurer

Fei Li, Trainee Representative

## YIA Selection Committee

Xiaojuan Li, Xin Yu, Hanzhang Lu, Wei Chen, Hua Guo, Hao Huang,  
Xiaoliang Zhang, Meiyun Wang, and Jiang Du

## Sponsors

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Systems



# Lucky Draw



iPad mini x1



Kindle x3



Xiaomi Band x10

