

CURRICULUM VITAE

SHUPING GE, MD, FACC, FASE

PERSONAL

HOME ADDRESS: 516 Penllyn Pike,
Blue Bell, PA 19422

CELL TELEPHONE: 713-628-8962

BUSINESS ADDRESS: Professor of Cardiovascular Medicine, Pediatrics,
and Obstetrics and Gynecology
Geisinger Commonwealth School of Medicine
(Pending)
System Chair, Department of Pediatric and Adult
Congenital Cardiology
Geisinger Heart Institute
Geisinger Medical Center
100 N. Academy Avenue
Danville, PA 17822-2775

BUSINESS TELEPHONE: 570-271-6466

BUSINESS FACSIMILE: 570-214-1480

ELECTRONIC MAIL: sge@geisinger.edu

EDUCATION

1980-86: M.D.
Shandong University School of Medicine
Jinan, Shandong
PR China

1986-89: Master of Medical Sciences
Pediatrics/Pediatric Cardiology
Qi Lu Hospital
Shandong University
Jinan, Shandong
PR China

1993-95: Research Fellowship
Cardiovascular Ultrasound
Oregon Health Sciences University
Portland, Oregon

1995-96: Research Assistantship
Cardiovascular Physiology
Oregon Health Sciences University
Portland, Oregon

1996-97: Research Fellowship
Cardiovascular Ultrasound
Wake Forest University Bowman Grey School of Medicine
Winston-Salem, North Carolina

1997-99: Residency
Pediatrics
St. Vincent's Hospital &
Medical Center
New York, NY

1999-02: Fellowship
Pediatric Cardiology
The Children's Hospital
University of Colorado School of Medicine
Denver, Colorado

APPOINTMENTS

ACADEMIC:

Shandong University School of Medicine Jinan, Shandong, P.R. China Assistant Professor of Pediatrics	1989-1993
University of Iowa Roy J. & Lucille A. Carver College of Medicine Iowa City, Iowa Assistant Professor of Pediatrics	2002-2004
Baylor College of Medicine Houston, Texas Assistant Professor of Pediatrics	2004-2009
Drexel University College of Medicine Philadelphia, PA Associate Professor of Pediatrics	2009-2016
Temple University School of Medicine Philadelphia, PA Adjunct Associate Professor of Pediatrics	2014-2016
Drexel University College of Medicine Philadelphia, PA	2016-2021

Professor of Pediatrics

Geisinger Commonwealth School of Medicine
Scranton, PA

2021-Present

Professor of Cardiovascular Science, Pediatrics, and Obstetrics and Gynecology

HOSPITAL:

Qi Lu Hospital
Jinan, Shandong, P.R. China
Attending Physician, Pediatric Cardiology 1989-1993

Children's Hospital of Iowa
University of Iowa Hospitals and Clinics

Iowa City, Iowa
Attending Physician, Pediatric Cardiology 2002-2004
Director, Echocardiography Laboratory 2002-2004

Texas Children's Hospital
Houston, Texas
Associate in Cardiology 2004-2009

Texas Heart Institute at St. Luke's Episcopal Hospital,
Houston, Texas
Research Scientist 2006-2009
Director, Noninvasive Cardiovascular Imaging 2006-2009
Center for Heart Failure and Stem Cell Research

St. Christopher's Hospital for Children
Philadelphia, PA
Attending Physician, Cardiology 2009-2021
Chief, Section of Cardiology 2009-2021
Co-Director, Heart Center for Children 2009-2012
Director, Noninvasive Imaging 2009-2012
Director of Heart Center Quality Improvement 2009-2021
Director, Fetal Cardiology 2009-2021
Director, Preventive Cardiology 2015-2021

Deborah Heart and Lung Center
Browns Mills, NJ
Attending Physician, Pediatric Cardiology 2013-2021
Acting Chair, Pediatric Cardiology 2013-2015
Chair, Pediatric Cardiology 2015-2019

Einstein Medical Center Philadelphia
Philadelphia, PA
Consultant 2010-2021

Hahnemann University Hospital Philadelphia, PA Consultant	2010-2019
St. Mary Medical Center Langhorne, PA Consultant	2010-2021
Temple University Hospital Philadelphia, PA Consultant	2010-2021
Reading Hospital and Medical Center West Reading, PA Consultant	2010-2021
Capital Health Medical Center-Hopewell Pennington, NJ Consultant	2011-2021
Capital Health Regional Medical Center Trenton, NJ Consultant	2011-2017
Abington Memorial Hospital Abington, PA Consultant	2011-2021
Einstein Medical Center Montgomery East Norristown, PA Consultant	2012-2017
Holy Redeemer Hospital Meadowbrook, PA Consultant	2013-2017
Kennedy Health System Turnersville, NJ Consultant	2013-2017
South Ocean Medical Center Manahawkin, New Jersey Consultant	2013-2016
Virtua Memorial South Jersey Hospitals Mount Holly, New Jersey Consultant	2013-2016
Children's Regional Hospital at Cooper Camden, New Jersey	

Section of Pediatric Cardiology Consultant	2013-2016
Cooper University Hospital Maternal Fetal Medicine Consultant	2013-2016
St. Luke's University Hospital Bethlehem, PA Department of Pediatrics Consultant	2015-2020
St. Luke's University Hospital Bethlehem, PA Perinatal Center Consultant	2015-2020
Shore Medical Center Consultant	2015-2021
Reading Hospital and Medical Center West Reading, PA Maternal Fetal Medicine Consultant	2017-2021
Geisinger Heart Institute and Geisinger Medical Center System Chair, Department of Pediatric and Adult Congenital Cardiology	2021-Present

LICENSURE AND CERTIFICATION

LICENSURE:

Colorado	CO 038645	1999-02
Iowa	IA 34597	2002-04
Texas	M3556	2004-2014
Pennsylvania	MD 438194	2009-present
New Jersey	NJ	2010-present

BOARD CERTIFICATION:

American Board of Pediatrics
Diplomate # 67127: 1999
Voluntary Recertification: 2006
Participating in Maintenance of Certification: 2013

American Board of Pediatrics
Subspecialty of Pediatric Cardiology
Board Certified #1907: 2006
Participating in Maintenance of Certification: 2013, 2018

SUBSPECIALTY CERTIFICATION:

American College of Radiology
Certification in Pediatric Cardiac Magnetic Resonance Imaging: 2013

COMMUNITY:

Athletic Health Organization (AHO)

Philadelphia, PA

Medical Advisory Board 2010-Present
Board of Directors 2013-Present

Simon's Fund

Medical Advisory Board 2010-Present

NATIONAL BOARDS, SOCIETIES AND COMMITTEES:

American Pediatric Society

The Woodlands, TX

Elected Member 2005-Present

Chinese American Heart Association

North Andover, MA

Founding Member 2006-Present
Vice President 2006-2009
President 2009-2011
Immediate Past President 2011-2012
Chairman, Board of Trustees 2012-2014

Chinese American Academy of Cardiology

Co-Chair, Board of Trustees 2014-Present

ACADEMIC AND PROFESSIONAL HONORS AND AWARDS

Young Investigator Award, 1997
American College of Cardiology
Finalist

Thorkildsen Research Fellowship Award, 1999
University of Colorado Health Sciences Center

Bristol-Myers Squibb Affiliate Travel Award 2001
American College of Cardiology

Marquis Who's Who 2009-Present

Top Doctors of America	Castle Connolly	2011
Top Doctors of America	Castle Connolly	2012
Top Doctors of America	Castle Connolly	2013
Top Doctors of America	Castle Connolly	2014
Top Doctors of America	Castle Connolly	2015
Top Doctors of America	Castle Connolly	2016
Top Doctors of America	Castle Connolly	2017
Top Doctors of America	Castle Connolly	2018
Top Doctors of America	Castle Connolly	2019
Top Doctors of America	Castle Connolly	2020
Top Doctors of America	Castle Connolly	2021
America's Top Doctors	U.S. News and World Report	2011
America's Top Doctors	U.S. News and World Report	2012
America's Top Doctors	U.S. News and World Report	2013
Top Doctor	Philadelphia Magazine	2018
Top Doctor	Philadelphia Magazine	2019
Top Doctor	Philadelphia Magazine	2020

VISITING PROFESSORSHIPS

Visiting Professor.	Shandong University School of Medicine, Jinan, P.R. China. June, 4, 2004
Visiting Professor.	Central China University of Science and Technology, Wuhan, Hubei, P.R. China. October 1, 2011
Visiting Professor.	The Fourth Military Medical University, Xian, Shannxi, P.R. China. August 13, 2012
Guest Professor.	Capital Medical University, Beijing Anzhen Hospital and Beijing Cardiovascular Institute, Beijing, P.R. China. December 2015

Visiting Professor. Kaifeng Children’s Hospital, Kaifeng, Henan, P.R. China.
May 2016

Visiting Professor. Shijiazhuang Women’s Hospital, Shijiazhuang, Hebei, P.R. China.
October 2017

NEWS MEDIA RELEASES

1. Iowa City, IA, February 23, 2004 (UI Health Care News): University of Iowa Children's Hospital Attains Rare Pediatric Echo Lab Status.
2. Iowa City, IA, July 11, 2004 (TV Health Reports): Pediatric Echocardiography Lab
3. Boston, MA, June 13, 2005 (Healthcare Sales & Marketing Network): “New Heart Ultrasound Data May Help Muscular Dystrophy Patients” at the American Society of Echocardiography's 16th Annual Scientific Sessions
4. New Orleans, LA, March 24, 2007 (MedicineWorld.Org) and (Medicexchange.com): Issues in Pediatric Cardiology at American College of Cardiology’s 56th Annual Scientific Session (ACC 2007)
5. Chicago, IL, March 31, 2008: “School-aged Children’s Intellectual Potential Hindered by Congenital Vascular Abnormalities Surgery May Restore School Performance” at American College of Cardiology’s 57th Annual Scientific Session (ACC 2008)

EDITORIAL BOARDS AND EDITORSHIPS:

JOURNALS

Editorship

Echocardiography, Associate Editor 2013 - Present

BIO Integration, Associate Editor 2021 - Present

Editorial Board

Pediatric Cardiology

Advisory Editorial Board 2008 -

Journal of American Society of Echocardiography

Editorial Board Member 2009 - 2012

Echocardiography

Editorial Board Member 2010 - Present

Guest Editorship

Echocardiography

Guest Editor

Issue on "Pediatric Echocardiography: State of the Art" 2013

Issue on "Fetal Echocardiography: State of the Art" 2017

Frontiers in Cardiovascular Medicine

Guest Editor

Cardiovascular Imaging and COVID-19

Standing Reviewer

Journal of American College of Cardiology

1995-Present

Journal of American Society of Echocardiography

2002-Present

Echocardiography

2002-Present

Ad Hoc Reviewer

Circulation

Journal of American College of Cardiology

Heart

American Heart Journal

American Journal of Cardiology

Journal of Pediatrics

Circulation: Imaging

Journal of American College of Cardiology: Imaging

PLOS

Etc.

TEXTBOOKS

Editorship

Real-time 3D Echocardiography for Congenital Heart Disease

From Fetus to Adult

2014

Ge S (Chief Editor).

Shelton, CT: PMPH USA

Cardiovascular Ultrasound Mediated Molecular Imaging

Zhiyi Chen (Editor) and Shuping Ge (Editor):

2014

Beijing, China: Science Press

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Academy of Pediatrics

Diplomate

1997-2006

Fellow

2006- Present

American Academy of Pediatrics Sub-board of Pediatric Cardiology

Diplomate

2006-Present

Society for Pediatric Research,

Elected Member for Cardiology

2005-Present

American College of Cardiology	
Member	2000-2007
Elected Fellow	2007-Present
CardioSurve Research Panel	2013-2018
Committee on Familial dyslipidemia	2016-Present
American Heart Association	
Professional Member	2002-Present
Edward S. Cooper M.D. Award Nomination Committee	2012-Present
American Society of Echocardiography	
Professional Member	2001-2007
Elected Fellow	2007-Present
American Telemedicine Association	
Professional Member	2016- Present
Fetal Heart Society	
Professional Member	2016- Present
Research Collaborative Committee	2017- Present
Grant Review Committee	2017- Present

MEMBERSHIP IN UNIVERSITY AND HOSPITAL COMMITTEES

UNIVERSITY:

University of Iowa Roy J. & Lucille A. Carver College of Medicine	
Admissions Committee	2002-2004
Baylor College of Medicine	
Admissions Committee	2006-2009
Faculty Research and Fellowship Support Committee	2006-2009
International Activities Committee	2007-2009

HOSPITAL:

St. Christopher's Hospital for Children	
Research Committee, Member	2010-
Search Committee for Chief of Critical Care, Member	2011
Medical Care Evaluation Committee, Member	2011-2012
Quality Improvement Committee, Member	2012-
Global Health Committee, Member	2012-
Search Committee for Chief of Medical Genetics, Member	2013
Task Force on Obesity	2013-
Committee on Transfusion, Member	2013-
Steering Committee on Telemedicine	2014-
Committee on Rules and Regulations	2015-
Committee on Outreach	2015-

Deborah Heart and Lung Center

PROFESSIONAL ACTIVITIES

CLINICAL:

St. Christopher’s Hospital for Children

- Outpatient Cardiology
- Inpatient Cardiology
- Echocardiography
- Fetal Cardiology
- Preventive Cardiology

Deborah Heart and Lung Center

- Pediatric and Fetal Cardiology

St Luke’s Bethlehem Perinatal Center

- Fetal Cardiology

The Reading Hospital Medical Center and Tower Health

- Fetal Cardiology

RESEARCH:

MAJOR RESEARCH INTERESTS:

1. Cardiovascular imaging methodologies for diagnosis, prognosis and treatment of congenital and acquired heart diseases
 - a. Real-time 3D echocardiography
 - b. Speckle tracking imaging (2D and 3D) for strain analysis
 - c. Artificial intelligence in cardiovascular imaging
2. Fetal cardiovascular disease
 - a. Computational fluid dynamics used in fetal circulation and fetal heart disease
 - b. Quantitative fetal echocardiography in fetal cardiovascular disease
3. Prevention of cardiovascular disease from childhood
 - a. Artificial intelligence in cardiovascular disease prevention in children

GRANT SUPPORT:

Co-Investigator: *Experimental and clinical study of a modified Porstmann PDA occluding device.* 1991 - 1995
 Ministry of Public Health, Beijing, P.R. China
 ¥ 15,000

Principal Investigator: *Design and experimental study of an atrial septal defect occluding device.* 1993 - 1994
 Natural Science Foundation, Shandong, P.R. China
 ¥ 20,000

Co-Investigator: *Roles of 3-Dimensional echocardiography in:* 1996 - 1997

a) pre-operative prediction of valve morphology during valve surgery,
b) selection and management of patients requiring circulatory support
devices and c) assessment of patients for cardiac source of
cerebrovascular thromboembolism.

Development Technology Fund
Wake Forest University Baptist Medical Center, NC
\$150,000

Postdoctoral Grant: *3-D ultrasound/Doppler methods
for aortic stenosis.* 2000 - 2002
American Heart Association (0020459Z)
\$80,000

Principal Investigator: *New Automated Three-Dimensional
Digital Doppler and Phase Velocity Cine Magnetic Resonance
Imaging Methods for Assessment of Cardiac Function and
Congenital Heart Disease.* 2002 - 2002
Collaborative Interdisciplinary Program Award
University of Iowa
\$25,000

Co-Investigator: *Highly Automated Analysis of 4-D
Cardiovascular MR* 2003 - 2007
NIH/NHLBI (R01 HL 71809)
\$1,000,000

Principal Investigator: *A Novel Real Time 3 Dimensional
Digital Doppler Method for Assessment of Cardiac Function,
Congenital and Acquired Heart Diseases in Children.* 2004 - 2008
American Heart Association
Scientist Development Award (0435319N)
\$260,000

Principle Investigator: *“Knowledge Based Reconstruction
for Accurate Measurement of the Right Ventricle in
Congenital Heart Disease.”* 2008
VetriPoint, Inc.
\$9,000

Principal Investigator: *A New Imaging Paradigm For
Aortic Disease By Quantitative Ultrasound.* 2008 - 2013
Memorial Hermann Foundation
\$75,000

Principal Investigator: *Ultrasound Targeted Gene Delivery for
Treatment of Cardiomyopathy in Muscular Dystrophy* 2011- 2013
Pennsylvania Commonwealth Universal Research Enhancement Grant Award
\$100,000

Co- Principal Investigator: *An International Collaborative Study on* 2014-2016

Genotype and Phenotype Correlations and Outcome in Hypertrophic Cardiomyopathy

Ministry of Science and Technology

P.R. China

¥2,000,000 (\$328,856)

Co- Principal Investigator: *An International Collaborative Study on 3D Echocardiography in Obesity in Childhood* 2015-2017

Jiangxi Bureau of Science and Technology

P.R. China

¥500,000 (\$82,000.00)

Principal Investigator: *Artificial Intelligence in Cardiovascular Disease Prevention in Children* 2019

St. Christopher Foundation

\$10,000

Principal Investigator: *Computational fluid dynamics and fetal echocardiography modeling in Coarctation of aorta* 2019

Fetal Heart Society and

St. Christopher Foundation

\$10,000

Co-Investigator (PI: Popyack): 2016-2020

REThink Research Experiences for Teachers

\$599,979

National Science Foundation

Principal Investigator: 2021-2023

Wall Shear Stress in Fetal Circulation by Computational Fluid Dynamics and Fetal Echocardiography: Implications in Etiology, Diagnosis, Prognosis, and Potential Treatment Strategy of Coarctation of Aortic in Fetus

\$275,000

NIH/NHLBI: NOT-HL-20-796 (Notice of Special Interest (NOSI): Bold New Bioengineering Research for Heart, Lung, Blood and Sleep Disorders and Diseases

Pending

PUBLICATIONS

Original and Other Articles in Peer-Reviewed Journals published or in press - 91

Books, Chapters, Other Invited Material - 8

Abstracts presented at national meetings – 144

ORIGINAL ARTICLES IN PEER-REVIEWED JOURNALS:

1. Hao FZ, Wang PR, Jiang MT, **Ge S**, Liu F, Tao MS, Tan GH. Transluminal balloon valvuloplasty for treatment of congenital aortic stenosis: A case report. *Shandong Med J.* 1988(6):11-12
2. Hao FZ, Wang PR, Jiang MT, **Ge S**, Tao MS, Wu YS. Balloon valvuloplasty for treatment of congenital pulmonary stenosis. *Acta Academiae Medicinae Shandong.*1989(1):56-60
3. Wang YW, **Ge S**. Infantile idiopathic benign ventricular tachycardia: A case report. *Shandong Med J.* 1991(6):12
4. Hao FZ, Wang PR, Xia W, **Ge S**, Wang YB, Wang C. Percutaneous balloon pulmonary valvuloplasty for pulmonary valve stenosis. *Shandong Med J.* 1991(6):11-12
5. Johnson G, **Ge S**. Echocardiographic diagnosis and assessment of congenital heart diseases. *J Clin Pediatrics* 1991(9):425
6. **Ge S**, Yang XJ, Zhang XZ, Zhang Y. Determination of pulmonary blood flow, arterial pressure and resistance in patients with patent ductus arteriosus by two-dimensional and Doppler echocardiography. *Chinese J Ultrasound Med.* 1992(3):30-32
7. Hao FZ, Wang C, Xia W, **Ge S**, Wang PR, Wang YB, Liu F. Percutaneous balloon aortic valvuloplasty. *Acta Academiae Medicinae Shandong.* 1992(3):243-246
8. Wang PR, Hao FZ, Yang XJ, Zhang XZ, Jiang MT, **Ge S**, Tao MS. Percutaneous balloon valvuloplasty for congenital pulmonary valve stenosis. *Chinese Circulation J.* 1992(3):251-253
9. Yu QX, Wang YW, **Ge S**, Yang XJ, Hao FX, Jiang MT, Tao MS. Percutaneous angiography and closure of patent ductus arteriosus. *Shandong Med J.* 1993(1):20-21
10. Xia W, Zhang X, **Ge S**, Xiang XJ. Percutaneous creation of a porcine model for atrial septal defect. *Journal of Interventional Radiology.* 1995(4):209-211
11. Hao FZ, Tao MS, Wang YB, Xia W, **Ge S**, Zhang X. Percutaneous balloon angioplasty for treatment of congenital aortic coarctation. *Chinese J Pediatrics.* 1994; 32(2):113
12. Shiota T, Jones M, Teien D, Yamada I, Passifini A, **Ge S**, Shandas R, Valdes-Cruz LM, Sahn DJ. Evaluation of mitral regurgitation using a digitally determined color Doppler flow convergence centerline acceleration method: Studies in an animal model with quantifiable mitral regurgitation. *Circulation* 1994;89:2879-87
13. Shiota T, Teien D, You-bin Deng, **Ge S**, Shandas R, Holcomb S, Sahn DJ. Evaluation of regurgitant flow volume based on centerline velocity/distance profiles using digital color M-Q Doppler: Application to orifices of different shapes. *J Am Coll Cardiol* 1994;24:440-5
14. **Ge S**, Xia W, Zhang X, Yang XJ, Hao FZ, Li CX. Buttoned double-piece occluder for closing atrial septal defects in piglets. *Chinese Circulation J.* 1995; 10(6): 353-356
15. **Ge S**, Shiota T, Rice MJ, Hellenbrand W, Sahn DJ. Transesophageal ultrasound imaging

- during stent implantation to relieve superior vena cava-to-intraatrial baffle obstruction after Mustard repair of transposition of the great arteries. *Circulation* 1995;91:2679-80
16. Shiota T, Jones M, Teien DE, Yamada I, Passifini A, **Ge S**, Sahn DJ. Dynamic change in mitral regurgitant orifice area: A comparison of color Doppler echocardiographic and electromagnetic flow meter based methods in a chronic animal model. *J Am Coll Cardiol* 1995;26:528-36
 17. Passifini A, Shiota T, Paik J, **Ge S**, Sahn DJ. An in vitro study of factors influencing pulmonary venous flow velocity patterns in mitral regurgitation. *J Am Coll Cardiol* 1995;26:1333-9
 18. Zhang X, **Ge S**, Xia W, Yang XJ, Hao FZ, Zhang XZ. Closure of atrial septal defect by percutaneous transfemoral approach in an animal model. *Journal of Applied Clinical Pediatrics*. 1996;11(6):350-351
 19. Yang XJ, **Ge S**, Xia W, Jiang MT, Wang YW. Development and clinical application of occlusion of patent ductus arteriosus with half-orbit controllable catheter set. *Acta Academiae Medicinae Shandong*. 1996; 34(1): 56-58
 20. Shiota T, Sinclair B, Ishil M, Zhou X, **Ge S**, Teien D, Gharib M, Sahn DJ. Three-dimensional reconstruction of color Doppler flow convergence regions and regurgitant jets: An in vitro quantitative study. *J Am Coll Cardiol* 1996;27:1511-8
 21. Xu JP, Shiota T, Beltran D, **Ge S**, Gong Z, Rice MJ, Cobanoglu A, Sahn DJ. Intraoperative transesophageal echocardiography in infants and children with tetralogy of Fallot: Using new high-resolution biplane 7.5MHz probes with CW Doppler capability. *Am J Cardiol* 1996;77:539-42
 22. Grauer SE, Xu J, Pantely GA, **Ge S**, Gong Z, Shiota T, Zhou X, Sahn DJ. MRX 115, and echocardiographic contrast agent, produces myocardial opacification after intravenous injection in primates: Studies before and after occlusion of left anterior descending coronary artery. *Acad Radiol* 1996 Aug;3 Suppl2:S405-S406
 23. **Ge S**, Jones M, Shiota T, Yamada I, DeGroff C, Teien D, Sahn DJ. Quantitation of mitral flow using color Doppler flow imaging. *J Am Soc Echocardiogr*. 1996;9:700-9
 24. Grauer S, Pantely G, Xu J, **Ge S**, Giraud G, Shiota T, Sahn DJ. Myocardial imaging with a new transpulmonary lipid fluorocarbon echo contrast agent: Experimental studies in pigs. *Am Heart J* 1996;27:1511-8
 25. **Ge S**, Warner JG Jr, Fowle KM, Kon ND, Brooker RF, Nomeir AM, Kitzman DW. Morphology and dynamic change of discrete subaortic stenosis can be imaged and quantified with 3-Dimensional transesophageal echocardiography. *J Am Soc Echocardiogr* 1997;10(7):713-716
 26. Abraham TP, Warner JG Jr, Kon ND, Lantz PE, Fowle KM, Brooker RF, **Ge S**, Nomeir AM, Kitzman DW. Feasibility, accuracy, and incremental value of intraoperative three-dimensional transesophageal echocardiography in valve surgery. *Am J Cardiology* 1997;80(12):1577-1582

27. **Ge S**, Warner JG, Abraham TP, Lantz PE, Kon ND, Nomeir AM, Fowle KM, Brooker RF, Burgess P, Kitzman DW. Three-dimensional surface area of aortic valve orifice by three-dimensional echocardiography: A clinical validation of a novel index for assessment of valvular aortic stenosis. *Am Heart J* 1998;136(6):1042-50
28. **Ge S**, DeGroff CG, Knudson O, Strain J, Chan KC. Non-invasive assessment of pseudo-pulmonary artery sling by echocardiography and computerized tomography. *Circulation*. 2001;103:3115-3116
29. **Ge S**. 3-D Echocardiography: Clinical applications in pediatric cardiology. *Pediatrics Ultrasound Today*. 2002;7(6):147-162
30. Bohlmeier TJ, Helmke S, **Ge S**, Lynch J, Brodsky G, Sederberg JH, Robertson AD, Minobe W, Bristow MR, Perryman MB. Hypoplastic left heart syndrome myocytes are differentiated but possess a unique phenotype. *Cardiovascular Pathology*. 2003 Jan-Feb;12(1):23-31
31. Wang G, Liu Y, Ye Y, Zhao S, Hsieh, **Ge S**. Top -level design and physical analysis for the first electron-beam micro-CT scanner. *Journal of X-Ray Science and Technology*. 12 (2004) 251-260
32. **Ge S**, Bu L, Zhang H, Disterhoft M, Li X, Sahn D, Stolpen A, Sonka M. A real-time three-dimensional digital Doppler method for measurement of flow rate and volume through mitral valve in children: a validation study compared with magnetic resonance imaging. *J Am Soc Echocardiogr*. 2005;18(1):1-7
33. Bu L, Munns S, Zhang H, Disterhoft M, Dixon M, Stolpen A, Sonka M, Scholz TD, Mahoney LT, **Ge S**. Rapid full volume data acquisition by real-time 3-dimensional echocardiography for assessment of left ventricular indexes in children: A validation study compared with magnetic resonance imaging. *J Am Soc Echocardiogr*. 2005 Apr;18(4):299-305.
34. Mascio CE, Burkhart HM, Fagan T, **Ge S**, Behrendt DM. Neonatal right atrial aneurysm. *Annals of Thoracic Surgery*. 2005 Dec;80(6):2382
35. Frazer J, **Ge S**. The Chromosome 22q11 microdeletion syndrome. *Pediatric Ultrasound Today*. 2006; 11(3):35-50
36. Yang Z, Bowles NE, Scherer SE, Taylor MD, Kearney DL, **Ge S**, Nadvoretzkiy VV, Defreitas G, Carabello B, Brandon LI, Godsel LM, Green KJ, Saffitz JE, Li H, Danieli GA, Calkins H, Marcus F, Towbin JA. Desmosomal dysfunction due to mutations in desmoplakin causes arrhythmogenic right ventricular dysplasia/cardiomyopathy. *Circ Res*. 2006 Sep 15;99(6): 646-55
37. Pemberton J, **Ge S**, Thiele K, Jerosch-Herold M, Sahn DJ. Real-time three-dimensional color Doppler echocardiography overcomes the inaccuracies of spectral Doppler for stroke volume calculation. *J Am Soc Echocardiogr*. 2006 Nov;19(11):1403-10.
38. Lu X, Nadvoretzkiy V, Bu L, Stolpen A, Klas B, **Ge S**. Measurement of volumetric flow by real-time 3-dimensional Doppler echocardiography in children. *J Am Soc Echocardiogr*. 2007 Aug;20(8):915-20

39. Chen FL, **Ge S**. Aortopulmonary window demonstrated by real time three-dimensional echocardiography and color Doppler. *J Am Soc Echocardiogr*. 2007 Nov; 20(11):1314.e7-8
40. Lu X, Nadvoretzkiy V, Bu L, Stolpen A, Ayres N, Pignatelli RH, Kovalchin JP, Grenier M, Klas B, **Ge S**. Accuracy and reproducibility of real-time 3-dimensional echocardiography for assessment of right ventricular volumes and ejection fraction in children. *J Am Soc Echocardiogr*. 2008 Jan;21(1):84-9
41. Sheehan FH, **Ge S**, Vick GW, Urnes K, Kerwin WS, Bolson EL, Chung T, Kovalchin JP, Sahn DJ, Jerosch-Herold M, Stolpen AH. Three-dimensional shape analysis of right ventricular remodeling in repaired tetralogy of Fallot. *Am J Cardiol*. 2008 Jan 1;101(1):107-13
42. Chen FL, Vick GW, **Ge S**. Left cervical aortic arch with right ligamentum arteriosum. *Tex Heart Inst J*. 2008; 35(1):78-9
43. Falkensammer CB, Ayres NA, Altman CA, **Ge S**, Bezold LI, Eidem BW, Kovalchin JP. Fetal cardiac malposition: Incidence and outcome of associated cardiac and extracardiac malformations. *Am J Perinatol*. 2008 May;25(5):277-81
44. Lu X, Xie M, Nadvoretzkiy V, Klas B, Tomberlin D, Ayres N, Towbin J, **Ge S**. How accurately, reproducibly and efficiently can we measure left ventricular indexes in children using m-mode, 2D and 3D echocardiography? *Am Heart J*. 2008 May;155(5):946-53
45. Yu JM, Liao CP, **Ge S**, Weng ZC, Hsiung MC, Chang JK, Chen FL. The prevalence and clinical impact of pulmonary artery sling on school-aged children: A large-scale screening study. *Pediatr Pulmonol*. 2008 Jul;43(7):656-61.
46. Bharkhada D, Yu H, **Ge S**, Carr JJ, Wang G. Cardiac CT radiation dose reduction using interior reconstruction algorithm with the aorta and vertebra as known information. *Journal of Computer Assisted Tomography*. 2009 May-Jun;33(3):338-47.
47. Tang M, Zhang X, Li Y, Guan Y, Ai X, Szeto C, Nakayama H, Zhang H, **Ge S**, Molkentin JD, Houser SR, Chen X. Enhanced basal contractility but reduced excitation-contraction coupling efficiency and beta-adrenergic reserve of hearts with increased Cav1.2 activity. *Am J Physiol Heart Circ Physiol*. 2010 Aug;299(2):H519-28.
48. Truong UT, Li X, Broberg CS, Houle H, Schaal M, Ashraf M, Kilner P, Sheehan FH, Sable CA, **Ge S**, Sahn DJ. Significance of mechanical alterations in single ventricle patients on twisting and circumferential strain as determined by analysis of strain from gradient cine magnetic resonance imaging sequences. *Am J Cardiol*. 2010 May 15;105(10):1465-9.
49. Sheehan FH, Kilner PJ, Sahn DJ, Vick GW 3rd, Stout KK, **Ge S**, Helbing WA, Lewin M, Shurman AJ, Buechel EV, Litt HI, Waiss MP. Accuracy of knowledge-based reconstruction for measurement of right ventricular volume and function in patients with tetralogy of Fallot. *Am J Cardiol*. 2010 Apr 1;105(7):993-9.

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- 125.** Chunquan Zhang, Yiwen Deng, Yanna Liu, Yan Xu, Li Zhang, Mingxing Xie, Shuping Ge. Cardiovascular Abnormalities in Children with Obesity: A Realtime 3-D Speckle Tracking Imaging Study. *Am Soc Echocardiogr.* 2017; 30(6): B13. Presented at the 28th Annual Scientific Sessions of the American Society of Echocardiography, June 2-6, 2017, Baltimore, MD
- 126.** X. Gu, Y. Zhang, J. Han, J. Chen, S. Ge, Y. He. Fetal cardiac tumor: genomic sequencing, echocardiography characteristics, clinical manifestations and outcomes. *Ultrasound Obstet Gynecol*, 50: 6. Presented at the 26th World Congress on Ultrasound in Obstetrics and Gynecology, September 16-19, 2017 Vienna, Austria
- 127.** J. Chen, J. Wang, L. Han, X. Gu, X. Hao, Z. Weng, Y. Huang, S. Ge, Y. He. Prenatal diagnosis of tuberous sclerosis complex using high-throughput DNA sequencing combined with fetal echocardiography. *Ultrasound Obstet Gynecol*, 50:99-100. Presented at the 26th World Congress on Ultrasound in Obstetrics and Gynecology, September 16-19, 2017 Vienna, Austria
- 128.** X. Hao, Y. Zhang, X. Gu, S. Ge, Y. He. The prevalence of pathogenic copy number variation in tetralogy of Fallot and associated congenital heart defect diagnosed prenatally. *Ultrasound Obstet Gynecol*, 50:99. Presented at the 26th World Congress on Ultrasound in Obstetrics and Gynecology, September 16-19, 2017 Vienna, Austria
- 129.** Z. Chen, J. Han, Y. Zhao, W. Shi, S. Ge, Y. He. Factor analysis on reverse flow phenomenon in aortic isthmus by fetal echocardiography. *Ultrasound Obstet Gynecol*, 50: 54. Presented at the 26th World Congress on Ultrasound in Obstetrics and Gynecology, September 16-19, 2017 Vienna, Austria
- 130.** X. Gu, H. Zhu, Y. Zhang, J. Han, H. Zhang, Y. Liu, A. Wang, B. Liu, Z. Weng, B. Sun, S. Ge, Y. He. Quantile score: a new reference system for fetal echocardiography from a large multi-center study. *Ultrasound Obstet Gynecol*, 50: 52. Presented at the 26th World Congress on Ultrasound in Obstetrics and Gynecology, September 16-19, 2017 Vienna, Austria
- 131.** J. Han, Z. Weng, X. Zhang, Y. Zhang, S. Ge, Y. He. Cerebral hemodynamics in fetuses with transposition of great arteries: a multi-center study. *Ultrasound Obstet Gynecol*, 50:283. Presented at the 26th World Congress on Ultrasound in Obstetrics and Gynecology, September 16-19, 2017 Vienna, Austria
- 132.** Y. Fu, Z. Weng, X. Gu, X. Hao, S. Ge, Y. He. The analysis of mis-diagnosis and missed diagnosis by fetal echocardiography combined with cardiovascular cast. *Ultrasound Obstet Gynecol*, 50:283. Presented at the 26th World Congress on Ultrasound in Obstetrics and Gynecology, September 16-19, 2017 Vienna, Austria
- 133.** X. Yang, J. Han, L. Sun, Y. Zhang, S. Ge, Y. He. Perinatal management and pregnancy outcome in pregnant women with congenital heart disease. *Ultrasound Obstet Gynecol*, 50:338. Presented at the 26th World Congress on Ultrasound in Obstetrics and

- 134.** Fu Y, Ruan Y, Sun L, Ge S, He Y. Risk stratification of maternal, fetal and neonatal outcome in Rheumatic heart disease. *Circulation*. 2017;136: Suppl 1- A17490. Presented at the 90th Annual Scientific Sessions of American Heart Association, Nov. 11-15, 2017, Anaheim, CA
- 135.** Liwen Liu, Lei Zuo, Jinzhou Zhang, Mengyao Zhou, Bo Xu, Rebecca T. Hahn, Martin B. Leon, Junbo Ge, Xiaodong Zhou, Jun Zhang, Shuping Ge, Lize Xiong. Safety and Efficacy of Intra-myocardial Septal Radiofrequency ablation for Hypertrophic Obstructive Cardiomyopathy. *Am Soc Echocardiogr*. 2018; 30(6): B100. Presented at the 29th Annual Scientific Sessions of the American Society of Echocardiography, June 22-26, 2017, Nashville, TN
- 136.** Xiaoyan Gu, Ye Zhang, Lin Sun, Jiancheng Han, Xiaowei Liu, Shuping Ge, Yihua He. Prenatal Identification of Atrioventricular Septal Defect and Associated Genomic Abnormality by Fetal Echocardiography and Whole Genome Sequencing. *Am Soc Echocardiogr*. 2018; 30(6): B100. Presented at the 29th Annual Scientific Sessions of the American Society of Echocardiography, June 22-26, 2017, Nashville, TN
- 137.** Prenatal identification of atrioventricular septal defect and associated genomic abnormality by fetal echocardiography and whole genome sequencing. *Ultrasound Obstet Gynecol*. Presented at the 28th World Congress on Ultrasound in Obstetrics and Gynecology. October 20-24, 2018, Singapore
- 138.** Comparison of the prevalence of pathogenic copy number variation in tetralogy of Fallot and associated congenital heart defect diagnosed between fetuses and children. *Ultrasound Obstet Gynecol*. Presented at the 28th World Congress on Ultrasound in Obstetrics and Gynecology. October 20-24, 2018, Singapore
- 139.** Prenatal diagnosis of common pulmonary vein atresia: evaluation by fetal echocardiography compared with cardiovascular cast model. *Ultrasound Obstet Gynecol*. Presented at the 28th World Congress on Ultrasound in Obstetrics and Gynecology. October 20-24, 2018, Singapore
- 140.** Echocardiographic characteristics and clinical outcome in fetuses with complete closure of the ductus arteriosus. *Ultrasound Obstet Gynecol*. Presented at the 28th World Congress on Ultrasound in Obstetrics and Gynecology. October 20-24, 2018, Singapore
- 141.** Differential diagnosis of fetal large ventricular septal defect and Tetralogy of Fallot based on big data analysis. *Ultrasound Obstet Gynecol*. Presented at the 28th World Congress on Ultrasound in Obstetrics and Gynecology. October 20-24, 2018, Singapore
- 142.** Frequency of 22q11 microdeletion syndrome in fetuses with conotruncal heart disease. *Ultrasound Obstet Gynecol*. Presented at the 28th World Congress on Ultrasound in Obstetrics and Gynecology. October 20-24, 2018, Singapore
- 143.** Fetal echocardiographic features and whole exome sequencing results of ventricular non-compaction cardiomyopathy. *Ultrasound Obstet Gynecol*. Presented at the 28th World Congress on Ultrasound in Obstetrics and Gynecology. October 20-24, 2018, Singapore

- 144.** Fetal aortic arch and its branches anomalies: prenatal ultrasound, vascular cast and gene detection. *Ultrasound Obstet Gynecol.* Presented at the 28th World Congress on Ultrasound in Obstetrics and Gynecology. October 20-24, 2018, Singapore
- 145.** Xu P, Zhao M, Zhu T, Zhang J, Tang X, Li J, Ge S. Prenatal Diagnosis and Assessment of Vascular Rings and Slings by Fetal Echocardiographic, MRI and Genetic Studies: A Large Single Tertiary Care Center Study. *Am Soc Echocardiogr.* 2019; 32(6): B31. Presented at the 29th Annual Scientific Sessions of the American Society of Echocardiography, June 21-25, 2019, Portland, OR
- 146.** Chen Z, Lin S, Throckmorton A, Han J, Yang X, Shuping G, He Y. Retrograde Flow in Aortic Isthmus in Fetuses with Congenital Heart Defects and Computer Flow Dynamic Modeling. *Am Soc Echocardiogr.* 2019; 32(6): B113. Presented at the 29th Annual Scientific Sessions of the American Society of Echocardiography, June 21-25, 2019, Portland, OR

PARTICIPATED IN TRAINING OF FELLOWS IN PEDIATRIC CARDIOLOGY:

<u>Fellow</u>	<u>Years Trained</u>	<u>Current Positions</u>
University of Iowa Carver College of Medicine		
J. Carter Ralphe, M.D.	2000-2003	
Heather Bartlett, M.D.	2000-2003	
Jeffrey Frazer, M.D.,	2001-2004	
Aaron Olsen, M.D.,	2001-2004	
Robert B. Escalera II, M.D.,	2002-2005	
Benjamin Reinking, M.D.,	2002-2005	
Baylor College of Medicine		
Colin J. McMahon, MRCP	2004-2005	
Wayne J. Franklin, M.D.,	2000-2006	
J. Lynn Jefferies, M.D.,	2004-2006	
Vasiliki V Dimas, M.D.,	2002-2006	
Gaurav Arora, M.D.,	2002-2006	
Jeff J. Kim, M.D.,	2002-2006	
John P. Breinholt, M.D.,	2002-2006	
Michael R. Carr, M.D.,	2003-2006	

Gary E. Stapleton, M.D.,	2003-2006
Brian K. Eble, M.D.,	2003-2006
Anjan M. Shah, M.D.,	2004-2008
Michael D. Taylor, M.D.,	2004-2006
Santiago O. Valdes, M.D.,	2004-2008
Jennifer J. Davenport, M.D.,	2004-2007
Christine Falkensammer, M.D.,	2004-2008
Mark A. Law, M.D.,	2004-2008
Susan C. Powers, M.D.	2004-2007
Joseph W. Rossano, M.D.,	2004-2008
Timothy C. Slesnick, M.D.,	2004-2007
Matthew A. Studer, M.D.	2004-2007
Karen M. Texter, M.D.	2004-2007
Grace Choi, MD,	2005-2009
Jamie Decker, MD,	2005-2009
Samuel Brescia, MD,	2005-2008
Ashish Shah, MD,	2005-2008
Vivien Lee, MD,	2005-2006
Erik Ellsworth, MD,	2005-2008
Shaine Morris, MD,	2005-2008
Elisabeth Thomas, MD,	2005-2009
Ivan Wilmot, MD,	2005-2009
Scott Macicek, MD,	2005-2009
Ivory Crittendon, MD	2005-2009
Kimberly Molina, MD,	2006-2010

Aimee Liou, MD,	2006-2010
Mary Niu, MD,	2007-2011
Waldemar F. Carlos, MD,	2007-2010
Joshua Blinder, MD	2007-2010
Kaila N Lopez, MD,	2008-2011
Carridad de la uz, MD,	2008-2011
Wilson Lam, MD	2008-2013
Shiraz Maskatia, MD,	2009-2012
Tal Gospin, MD,	2009-2012
Jarrod Knudson, MD, PhD,	2009-2012
Pirouz Shamszad, MD,	2009-2012
Adam Lowry, MD,	2009-2013
Peter Ermis, MD,	2009-2014

US MENTORSHIP IN BASIC, TRANSLATIONAL AND CLINICAL RESEARCH IN BIOMEDICAL ENGINEERING AND CARDIOVASCULAR MEDICINE

Mentees

Years Trained

Current Positions

University of Iowa College of College of Engineering

Honghai Zhang, PhD 2002-2004

PhD Candidate

(Topic: *Image segmentation*)

Currently: Research Scientist Department of Electrical and Computer Engineering College of Engineering

The University of Iowa

Co-Adviser: Milan Sonka, PhD

University of Iowa Carver College of Medicine

Stephanie Munns, MD 2003 MS-III

(Topic: *Volumetric measurement by 3D Echocardiography*)

Currently: Attending OB/GYN

Harper University Hospital

Detroit, MI

Rebecca Craig, MD 2003 MS III

(Topic: *Focused ultrasound therapy*)
Currently: Attending OB/GYN
McLeod OB/GYN Dillon
Dillon, SC

Morgan Pansegrau, MS-III 2004 MS III
(Topic: *Adriamycin Cardiac Toxicity*)
Currently: Jones Eye Institute –
University of Arkansas for Medical Sciences
Little Rock, AR

Baylor College of Medicine

Rod Pellenberg, MD 2007-2008 Pediatric Resident
(Topic: *SCD in HCM*)
Currently: Pediatric Cardiologist
Duke University Medical Center
Durham, NC

Grace Choi, MD, 2005-2009 Pediatric Cardiology and Imaging
Fellow
(Topic: *3D echocardiography*)
Currently: Assistant Professor of Pediatrics,
Northwestern University Feinberg School of Medicine
Attending Cardiologist
Ann & Robert H. Lurie Children's Hospital of Chicago
Chicago, IL

Karen Texter, MD, 2004-2007 Pediatric Cardiology Fellow
(Topic: *SCD in HCM*)
Currently: Assistant Professor of Pediatrics
Ohio State University
Attending Cardiologist
Nationwide Children's Hospital
Columbus, OH

Shaine Morris, MD, 2005-2009
Pediatric Cardiology Fellow
(Topic: *3D echocardiography*)
Currently: Instructor of Pediatrics,
Section of Cardiology
Baylor College of Medicine
Attending Cardiologist
Texas Children's Hospital
Houston, TX

St. Christopher's Hospital for Children

Roshan D'Souza, MD, 2011 - 2012
Pediatric Resident
(Topic: *SCD in young athletes*)

Pediatric Cardiology Fellow
Rainbow Babies Hospital
Cleveland, OH

Matthew Furst, MD 2012 - 2014
Pediatric Resident
(Topic: *CFTD and cardiomyopathy*)
Pediatric Cardiology Fellow
Cleveland Clinic Foundation
Cleveland, OH

Amanda Cai, MD 2013 – 2016
Pediatric Resident
(Topic: *CVD in sickle cell disease*)

Courtney Wein, DO 2014 – 2016
Pediatric Resident
(Topic: *CVD in sickle cell disease*)

**NATIONAL AND INTERNATIONAL IN BASIC, TRANSLATIONAL AND CLINICAL
RESEARCH IN BIOMEDICAL ENGINEERING AND CARDIOVASCULAR
MEDICINE**

Liping Bu, MD, PhD 2002-2004
Research Fellow
(Topic: *3D echocardiography*)
Currently: Associate Professor
Department of Cardiology
Fu Dan University
Shanghai Cardiovascular Institute,
Shanghai, PRC

Xiuzhang Lu, MD, PhD, 2004-2006
Research Fellow
(Topic: *3D Doppler*)
Currently: Associate Professor
Chinese Academy of Medical Sciences and Chinese Cardiovascular Institute
Associate Director
Department of Ultrasound
Fu Wai Hospital
Beijing, PRC

Vyacheslav V Nadvoretzkiy, PhD 2005-2007
Research Fellow
(Topic: *Ultrasound tissue characterization*)
Currently: Senior Scientist
TomoWave Laboratories, Inc.
Houston, TX

Mingxing Xie, MD, PhD, 2005-2007
Research Fellow

(Topic: *Echocardiography and aortic disease*)
Currently: Professor
Huazhong University of Science and Technology
Director, Department of Ultrasound
Union Hospital
Wuhan, PRC

Shan Wu, MD, 2006-2008
Research Fellow
(Topic: *3D Echocardiography*)
Currently: Attending Physician
Department of Echocardiography
An Zhen Cardiovascular Hospital
Beijing, PRC

Minjuan Zheng, MD, PhD, 2006-2008
Research Fellow
(Topic: *Ultrasound biomicroscopy in MDX mice*)
Currently: Attending Physician
Department of Ultrasound
Xi Jing Hospital
Fourth Military Medical University Xi'an, PRC

Jiangbo Qu, MD, PhD 2006-2007
Research Fellow
(Topic: *TDI in MDX mice*)
Currently: Attending Physician
Department of Ultrasound
Weihai City Hospital
Weihai, PRC

Manli Fu, MD, PhD 2007-2008
Research Fellow
(Topic: *3D echocardiography*)
Currently: Attending Physician
Department of Ultrasound
Union Hospital
Huazhong University of Science and Technology
Wuhan, PRC

Guowei Tao, MD, PhD, 2010-2011
Research Fellow
(Topic: *Fetal Echocardiography*)
Currently: Associate Professor
Department of Ultrasound
QiLu Hospital
Shandong University
Jinan, PRC

Jun Lu, MD, PhD, 2010
Research Fellow

(Topic: *3D Echocardiography*)
Currently: Attending Pediatrician
Chairman, Department of Pediatrics
Haikou People's Hospital,
Haikou, PRC

Zhenzhou Li, MD, PhD 2010-2011
Research Fellow
(Topic: *Stress echocardiography in MDX mice*)
Currently: Attending Physician
Department of Ultrasound
Shenzhen People's Hospital, Shenzhen, PRC

Li Zhang, MD, PhD, 2010-2012
Research Fellow
(Topic: *Ultrasound mediated gene delivery*)
Currently: Attending Physician
Department of Ultrasound
Union Hospital
Huazhong University of Science and Technology
Wuhan, PRC

Ying Li, MD, 2010-2013
Research Fellow
(Topic: *3D strain echocardiography*)
Currently: Attending Physician
Department of Surgery
Daping Hospital,
Third Military Medical University
Chongqing, PRC

Xinqiao Tian, MD, PhD, 2011-2012
Research Fellow
(Topic: *Ultrasound mediated gene delivery*)
Currently: Associate Professor
Wenzhou Medical College
Associate Director,
Department of Echocardiography
Wenzhou Medical College Affiliated Hospitals and Children's Hospital, Weizhou, PRC

Liwen Liu, MD, PhD, 2011-2013
Research Fellow
(Topic: *SCD in HCM*)
Currently: Associate Professor
Associate Director
Department of Ultrasound
Xi Jing Hospital
Fourth Military Medical University Xi'an, PRC

Zhiyi Chen, MD, PhD, 2012-2013
Research Fellow

(Topic: *Ultrasound mediated gene delivery*)

Currently: Associate Professor
Department of Ultrasound
Chief Operating Officer
Affiliated Hospital
Guangzhou Medical University
Huangzhou, PRC

Xiaolong Ren, MD, PhD, 2012-2013
Research Fellow
(Topic: *Elasticity in MFS*)
Currently: Attending Physician
Associate Director
Department of Ultrasound
Lanzhou General Military Hospital, Lanzhou, PRC

Yingzheng Zhao, PhD, 2012-2013
Research Fellow
(Topic: *Ultrasound mediated gene delivery*)
Currently: Associate Professor and
Vice Chair
Department of Pharmacology Wenzhou Medical College,
Wenzhou, PRC

Yekuo Li, MD, PhD, 2013-2014
Research Fellow
(Topic: *Ultrasound mediated drug Delivery and hemostasis*)
Currently: Associate Professor
Associate Director
Ultrasound Department
Liuhuaquao Hospital,
Guangzhou, PRC

Chunquan Zhang, MD 2013-2014
Research Fellow
(Topic: *Ultrasound measures and obesity*)
Currently: Associate Professor
Associate Director
Second Affiliated Hospital of Nanchang University
Nanchang, PRC

Qian Yang, MD 2015-2017
Research Fellow
(Topic: *Ultrasound measures and obesity*)
Department of Ultrasound
Xi Jing Hospital
Fourth Military Medical University, Xi'an, PRC

Zhuo Chen, MD, PhD 2018-2019
Research Fellow

(Topic: *Computational Flow Dynamics in fetal cardiovascular diseases*)

Department of Ultrasound
Beijing An Zhen Hospital
Capital Medical University, Beijing, PRC

Quihong Chen, MD 2019-2020

Research Fellow

(Topic: *Fetal Echocardiography and Fetal Heart Development in Hypothyroidism*)

Department of Ultrasound
Shijiazhuang Maternity Hospital, Hebei, PRC

Chi Chi Do-Nyngen 2020-

Medical Student

Philadelphia College of Osteopathic Medicine

(Topic: *Diminished flow in aorta modeled by 3D/4D fetal echocardiography/Doppler and computational fluid dynamics: Implications in coarctation of aorta*)

Lauren Andree 2020-

Medical Student

Drexel University College of Medicine

(Topic: *Development of a clinical decision support system (CDSS) and artificial intelligence (AI) system for cardiovascular risk reduction in high-risk pediatric patients*)

Lauren Andree 2020-

Medical Student

Drexel University College of Medicine

(Topic: *Development of a clinical decision support system (CDSS) and artificial intelligence (AI) system for cardiovascular risk reduction in high-risk pediatric patients*)

Katherine DiBello 2020-

Medical Student

Drexel University College of Medicine

(Topic: *Development of a clinical decision support system (CDSS) and artificial intelligence (AI) system for cardiovascular risk reduction in high-risk pediatric patients*)

REGIONAL, NATIONAL AND INTERNATIONAL CME COURSE DIRECTORSHIPS:

1. Course Director: Heart care for the Young: From Fetus to Adult with Congenital Heart Disease
February 2017, Philadelphia
2. Course Director: Heart care for the Young: From Fetus to Adult with Congenital Heart Disease
February 2018, Philadelphia
3. Course Director: Heart care for the Young: From Fetus to Adult with Congenital Heart Disease
February 2019, Philadelphia

REGIONAL, NATIONAL AND INTERNATIONAL INVITED GRAND ROUNDS

AND LECTURESHIPS

1. “Fetal Echocardiography”.
Genesis Heart Institute; Davenport, IA. October, 2003.
2. “High Intensity Focused Ultrasound: Potential Applications in Pediatric Cardiology”.
15th Annual Scientific Sessions of the American Society of Echocardiography, June 26-30, 2004, San Diego, CA
3. “Frontiers in Cardiac Ultrasound Research.”
June, 2004, Beijing Children’s Hospital, Beijing, PRC
4. “Advances in Cardiac Ultrasound”.
June, 2004. Shandong University School of Medicine. Jinan, Shandong, PRC
5. “Pediatric Cardiac Ultrasound: An Update.”
June, 2004, Capital University of Medical Sciences and Beijing Children’s Hospital Beijing, PRC
6. “Cardiac Ultrasound: 1D, 2D, 3D, 4D and beyond...”
June, 2004, Chinese Academy of Medical Sciences/Chinese Cardiovascular Institute and Fu Wai Hospital Beijing, P.R. China
7. “CRT: from a Pediatrician’s Perspective.”
March, 11, 2006. Chinese American Heart Association Conference; Atlanta, GA
8. “Quantification in 3-D Echo Imaging”.
March 14, 2006. American College of Cardiology 55th Annual Scientific Session; Atlanta, GA
9. “Quantitative 3D echocardiography for Congenital Heart Disease”.
June 4, 2006. Chinese American Heart Association Conference; Baltimore, MD
10. “3D echocardiography in Congenital Heart Disease: Beyond Pretty Pictures”
October 5, 2006. Philips Medical Ultrasound; Seattle, WA
11. “Rings, Slings and Such Things: Old Question and New Tricks”.
November 11, 2006. 16th Annual International Conference on Case Studies in Echocardiography and Recent Advances; Chicago, IL
12. “What Happened in the OR?”
March 24, 2007. 24th Annual International Conference on Recent Advances in Echocardiography; New Orleans, LA
13. “3D Echocardiography: Updates and Clinical Indications”.
June 19, 2007. Society of Pediatric Echocardiography; Seattle, WA

14. “Nanoscale Ultrasound Contrast Agents for Targeted Cardiovascular Molecular Imaging and Therapy”
August 7, 2007. 1st IEEE (Institute of Electrical and Electronics Engineers)/NANOMED, 2007. Macau, SAR, PRC
15. “Congenital Heart Disease: An Update”
September 22, 2007. International Heart Forum; Beijing, PRC
16. “3D Echocardiography: Clinical Applications for Congenital Heart Disease”
Joint conference of American Society of Echocardiography, European Society of Echocardiography, and Chinese Society of Echocardiography; September 23, 2007. Beijing, PRC
17. “Co-Chair, New Techniques for Valvular Heart Disease”.
September 23, 2007. Joint conference of American Society of Echocardiography, European Society of Echocardiography, and Chinese Society of Echocardiography; Beijing, PRC
18. “Adult with Congenital Heart Disease: A Problem from Our Success”
October 11, 2007. Great Wall International Cardiology Conference; Beijing, PRC
19. “3-D Echocardiography for Congenital Heart Disease: A Toy or a Tool?”
October 12, 2007. Great Wall International Cardiology Conference; Beijing, PRC
20. “Congenital Heart Disease: The Quest for a Cure”.
October 12, 2007. Great Wall International Cardiology Conference; Beijing, PRC
21. “What Happened in the Cath Lab”.
March, 2008, 26th Annual International Conference on Case Studies in Echocardiography and Recent Advances; Chicago, IL
22. “3D echocardiography for Congenital Heart Disease: Beyond Cool Pictures”
June, 2008. Chun Shan Medical University; Taiwan, ROC
23. “Congenital Heart Disease and Cardiovascular Imaging: The State of the Art”
October 24, 2008. Great Wall International Cardiology Conference; Beijing, PRC
24. “Stem Cell Therapy for Cardiovascular Diseases: From Bedside to Bench”.
October 24, 2008. Great Wall International Cardiology Conference; Beijing, PRC
25. “A Blue Child: Think Outside the Heart”.
March, 2009. 27th Annual International Conference on Case Studies in Echocardiography and Recent Advances; Orlando, FL
26. “Real-time 3-D Echocardiography for Congenital Heart Disease”
July, 2009. International Society of Cardiovascular Ultrasound (ISCU); Kobe,

Japan.

27. “Percutaneous Intervention for Congenital Heart Diseases in the US: A Pediatric Cardiologist’s Perspective”.
3rd Oriental Congress of Cardiology, Shanghai, PRC. May, 2009
28. “Sudden Cardiac Death in the Young”.
October, 2009. 20th Great Wall International Cardiology Conference; Beijing, PRC
29. “A Blue Child: Think Outside the Heart”.
October, 2009. 20th Great Wall International Cardiology Conference; Beijing, PRC
30. “What’s New in Fetal Echocardiography & Fetal Cardiology: A US Perspective”
May, 2010, 4th Oriental Congress of Cardiology, Shanghai, PRC
31. “What’s New in Contemporary Management of Congenital Heart Disease: From Experience to Evidence”,
May, 2010, 4th Oriental Congress of Cardiology, Shanghai, PRC
32. Co-Chair: New Advances in Cardiovascular Disease Therapy: A US Perspective.
June, 2010, World Congress of Cardiology, Beijing, PRC
33. “What’s new in clinical trials for congenital heart diseases?”
June, 2010, World Congress of Cardiology, Beijing, PRC
34. “Hypoplastic Left Heart Syndrome: Challenges and Opportunities in Management of Complex Congenital Heart Diseases in Current Era”
October, 2010. 21st Great Wall International Congress of Cardiology; Beijing, PRC
35. “Congenital Heart Defect: From Womb to Tomb”.
March 2011 Lankenau Institute for Medical Research, Main Line Health Heart Center, Jefferson Medical College of Thomas Jefferson University
36. “From Fetal Echocardiography to Fetal Cardiology”.
May 2012. The 4th Philadelphia Peri-natal Diagnosis Conference
37. “Marfan Syndrome: A Paradigm for Translational Research for Cardiovascular Disease?”
April, 2011, First Yangtze River International Congress of Cardiology, Chongqing, PRC
38. “Cardiomyopathy in Duchenne Muscular Dystrophy: New Promising Therapies”
April, 2011, First Yangtze River International Congress of Cardiology, Chongqing, PRC

39. "Congenital Heart Defect: From Womb to Tomb".
October, 2011. 22nd Great Wall International Congress of Cardiology; Beijing, PRC
40. Co-Chair: "American Heart Association/Chinese American Heart Association Joint Symposium"
October, 2011. 22nd Great Wall International Congress of Cardiology; Beijing, PRC
41. "What is New in Congenital Heart Disease: A US Perspective"
May 2012, 6th Oriental Congress of Cardiology, Shanghai, PRC
42. "3D Echocardiography: Something Old and Something New"
May 2012, 6th Oriental Congress of Cardiology, Shanghai, PRC
43. Co-Chair, "Cardiovascular Imaging",
May 2012, 6th Oriental Congress of Cardiology, Shanghai, PRC
44. Co-Chair "Congenital Heart Disease",
October, 2012. 23rd Great Wall International Congress of Cardiology; Beijing, PRC
45. "Pediatric Cardiology Training in the US"
October, 2012. 23rd Great Wall International Congress of Cardiology; Beijing, PRC
46. "2D and 3D echocardiography for Diagnosis and Assessment of Complex Congenital Heart Disease".
October, 2012. 23rd Great Wall International Congress of Cardiology; Beijing, PRC
47. "Screening Cardiovascular Disease in the Young: Should We Do It and How?"
October, 2012. 23rd Great Wall International Congress of Cardiology; Beijing, PRC
48. "Anomalies of the Left Heart"
May 2013. The 5th Philadelphia Peri-natal Conference, Philadelphia, PA
49. Co-Chair: Cardiovascular Imaging Forum
May 2013, 7th Oriental Congress of Cardiology, Shanghai, PRC
50. "Real-time 3D Echocardiography: Beyond the ASE Guidelines"
May 2013, 7th Oriental Congress of Cardiology, Shanghai, PRC
51. "Fetal Cardiology: New Developments and Future Directions"
May 2013, 7th Oriental Congress of Cardiology, Shanghai, PRC

52. “Fetal Cardiovascular Disease: Early Diagnosis and Intervention”
Co-Chair: Shuping Ge, MD
October, 2013. 24th Great Wall International Congress of Cardiology; Beijing, PRC
53. “Heart Failure in Fetus: Early Diagnosis, Prognosis and Management”
October, 2013. 24th Great Wall International Congress of Cardiology; Beijing, PRC
54. “Fetal Cardiology and Fetal Cardiac Intervention: New Development”
October, 2013. 24th Great Wall International Congress of Cardiology; Beijing, PRC
55. Love Heart Project — Training Course of Congenital Heart Disease
Co-Chair: Shuping Ge
October, 2013. 24th Great Wall International Congress of Cardiology; Beijing, PRC
56. “Fetal Cardiology: New development and future direction”
October, 2013. 24th Great Wall International Congress of Cardiology; Beijing, PRC
57. “Fetal Cardiovascular Imaging: New developments”
November, 2013. 23rd Annual International Conference on Echocardiography and Allied Techniques (MRI, CT Scan, Nuclear): Case Studies and Recent Advances. Dallas, TX
58. “Fetal Heart Failure”
March 28, 2014. 30th International Conference on Recent Advances in Echocardiography and Allied Techniques (MRI, CT Scan, Nuclear), Washington D.C.
59. “Three-dimensional Echocardiography: Incremental Value over 2D Technique in the Evaluation of Congenital Intracardiac Defects”
May 2014, World Congress of Cardiology Scientific Sessions 2014, Melbourne, Australia
60. “Closure of Peri-membranous VSD by Surgery vs Catheter Approach: What Have We Learned from the Randomized Clinical Trial?”
May 2014, 8th Oriental Congress of Cardiology, Shanghai, PRC
61. “Sudden Cardiac Death in HCM: Utility of Echocardiography in Risk Stratification”
May 2014, 8th Oriental Congress of Cardiology, Shanghai, PRC
62. “Fetal Echocardiography: 4 Chamber Views and Related Cardiac Defects”

May 2014. The 6th Philadelphia Peri-natal Conference, Philadelphia, PA

63. “Anomalies of the Left Heart”
October, 2014. 25th Great Wall International Congress of Cardiology; Beijing, PRC
64. “Closure of Peri-membranous VSD by Surgery vs Catheter Approach: What Have We Learned from the Randomized Clinical Trial?”
October, 2014. 25th Great Wall International Congress of Cardiology; Beijing, PRC
65. “Telemedicine between US and China: Challenges and Opportunities”
June, 2015. The 1st International OB/Pediatric Summit, Nanning, Guangxi, June, 2015
66. “Cardiovascular Disease Prevention from Childhood: What Can Pediatricians Do to Curb the Worldwide Epidemic?”
June, 2015. 1st International OB/Pediatric Summit, Nanning, Guangxi, June, 2015
67. “Fetal Cardiology: 2015, USA”
June, 2015. 1st International OB/Pediatric Summit, Nanning, Guangxi, June, 2015
68. “Risk Stratification of Sudden Cardiac Death in HCM”
August, 2015. Chinese Heart Congress, Beijing, PRC
69. “Sudden Cardiac Death Risk Stratification in HCM by Echocardiography”
August, 2015. Chinese Heart Congress, Beijing, PRC
70. “Echo Assessment of Cardiac Function in Congenital Heart Diseases”
August, 2015. Chinese Heart Congress, Beijing, PRC
71. Co-Chair: AHA CVDY and CAAC Joint Symposium on “New Progress in Cardiovascular Disease in the Young”
October, 2015. 26th Great Wall International Congress of Cardiology; Beijing, PRC
72. “Prevention of Cardiovascular Disease in the Young”
October, 2015. 26th Great Wall International Congress of Cardiology; Beijing, PRC
74. Co-Chair: Fetal Cardiology Summit
October, 2015. 26th Great Wall International Congress of Cardiology; Beijing, PRC
75. “The Surgical Treatment and Prognosis of Transposition of the Great Arteries”
October, 2015. 26th Great Wall International Congress of Cardiology; Beijing, PRC

76. Fetal Heart Disease - From the Imaging to Interventional Treatment
October, 2015. 26th Great Wall International Congress of Cardiology; Beijing, PRC
77. Co-Chair: “The Love Heart Project: Congenital Heart Disease”
October, 2015. 26th Great Wall International Congress of Cardiology; Beijing, PRC
78. Lessons Learned from Clinical Trials for Safety and Efficacy of Peri-membranous VSD: Cath vs Surgery
October, 2015. 26th Great Wall International Congress of Cardiology; Beijing, PRC
79. Organizing Committee Chairmen. 27th Great Wall International Congress of Cardiology
October, 2016, Beijing, PRC
80. Co-Chair, Young Investigator Award, Basic and Translational Sciences. 27th Great Wall International Congress of Cardiology
October, 2016, Beijing, PRC
81. Co-Chair, Fetal Cardiology Session (Chinese American Academy of Cardiology-Great Wall International Congress of Cardiology Joint Session). 27th Great Wall International Congress of Cardiology
October, 2016, Beijing, PRC
82. Co-Chair, American Heart Association Cardiovascular Disease in the Young Council Symposium “Advances in the Care of Congenital Heart Disease in the United States” 27th Great Wall International Congress of Cardiology
October, 2016, Beijing, PRC
83. “Care of the Tiniest Heart: New Frontiers in Fetal Cardiology”.
27th Great Wall International Congress of Cardiology
October, 2016, Beijing, PRC
84. “Heterotaxy syndrome: Current status in prognosis, outcome and parental counseling”
27th Great Wall International Congress of Cardiology
October, 2016, Beijing, PRC
85. Sudden Cardiac Death in Hypertrophic Cardiomyopathy:
From Genes to Echocardiography
27th Great Wall International Congress of Cardiology
October, 2016, Beijing, PRC
86. Past, Present and New Frontiers in Fetal Cardiology

- The 6th Congress of The Asia-Pacific Pediatric Cardiac Society
October, 2016, Shanghai, PRC
87. Perimembranous VSD closure: Transcatheter vs surgery?
The 6th Congress of The Asia-Pacific Pediatric Cardiac Society
October, 2016, Shanghai, PRC
 88. Complex Congenital Heart Disease in a Fetus
33rd International Conference on Recent Advances in Echocardiography and
Allied Techniques (MRI, CT Scan, Nuclear)
March, 2017, Washington DC
 89. The Past, Present and Future of Fetal Cardiology
The 19th South China International Congress of Cardiology
April, 2017, Guangzhou, PRC
 90. “Right Heart Congenital Heart Defects: Fetal Echocardiographic Imaging,
Prognosis and Counseling”
June 10, 2017. The 9th PHILADELPHIA Prenatal Diagnosis and
MFM/Obstetrics Update, Philadelphia, PA
 91. Honorary Co-Chair, Cardiovascular Imaging Summit, 2017 Xi’an International
Cardiovascular Conference
July 27, 2017. Xi’an, China
 92. “New Frontiers in Fetal Echocardiography and Fetal Cardiology”
Cardiovascular Imaging Summit, 2017 Xi’an International Cardiovascular Conference
July 27, 2017. Xi’an, China
 93. “New Frontiers in Fetal Echocardiography”
August, 2017. Chinese Heart Congress, Beijing, PRC
 93. “New Advance in 3-D Speckle Tracking Imaging”
August, 2017. Chinese Heart Congress, Beijing, PRC
 94. Organizing Committee. 28th Great Wall International Congress of Cardiology
October, 2017, Beijing, PRC
 95. Co-Chair, Young Investigator Award, Basic and Translational Sciences. 28th
Great Wall International Congress of Cardiology
October, 2017, Beijing, PRC
 96. Co-Chair, Fetal Cardiology Session (Chinese American Academy of Cardiology-
Great Wall International Congress of Cardiology Joint Session). 28th Great Wall
International Congress of Cardiology
October, 2017, Beijing, PRC

97. “Counseling the family on prenatal diagnosis and outcome of congenital heart disease”. 28th Great Wall International Congress of Cardiology
October, 2017, Beijing, PRC

98. “Sequential segmental analysis of congenital heart disease”.
International Symposium of Perinatal Management of Congenital Heart Disease at
Shanghai Xinhua Hospital.
October, 2017, Shanghai, PRC

99. “New Advances in Fetal Echocardiography”
Symposium in Prenatal Ultrasound in Diagnosis and Therapy and 3D/4D
Ultrasound Application and Advances
October, 2017. Shijiazhuang, PRC

100. “Fetal Cardiology: From Diagnosis to Therapy”
Symposium in Prenatal Ultrasound in Diagnosis and Therapy and 3D/4D
Ultrasound Application and Advances
October, 2017. Shijiazhuang, PRC

101. “Left Heart Defects: Prenatal diagnosis, outcome, intervention and counseling”.
The 20th South China International Congress of Cardiology
April, 2018, Guangzhou, PRC

102. “Neonatal Echocardiography: What the neonatologists should know and do?”
Symposium in Neonatology Updates
June, 2018. Shijiazhuang, PRC

103. “Cardiac Malformations III: Ventricular Septal Defect (VSD),
Atrioventricular Canal Defect (AVCD), and Pulmonary Stenosis (PS)”
June, 2018. The 6th Philadelphia Peri-natal Conference, Philadelphia, PA

104. Organizing Committee. 29th Great Wall International Congress of Cardiology
October, 2018, Beijing, PRC

105. Co-Chair, Young Investigator Award, Basic and Translational Sciences. 29th
Great Wall International Congress of Cardiology
October, 2018, Beijing, PRC

106. Right heart failure in adults with congenital heart disease. 29th Great Wall
International Congress of Cardiology
October, 2018, Beijing, PRC

107. “A blue child”
35th International Conference on Recent Advances in Echocardiography and
Allied Techniques (MRI, CT Scan, Nuclear)
March 15, 2019, Washington D.C.

108. “Prenatal diagnosis, prognosis, intervention and counseling of congenital heart defects of right heart: A US fetal cardiologist’s approach
The 20th South China International Congress of Cardiology
April, 2019, Guangzhou, PRC
109. “Imaging and Management of Adults with Congenital Heart Disease”
May 2019, 13th Oriental Congress of Cardiology, Shanghai, PRC
110. “Prenatal Diagnosis and Counseling of Congenital Heart Defects: “Septal Defects: Large and Small; Common and Rare”
June, 2019. The 7th Philadelphia Peri-natal Conference, Philadelphia, PA
111. Organizing Committee. 30th Great Wall International Congress of Cardiology
October, 2019, Beijing, PRC
112. Pulmonary Hypertension and RV Failure in Adult with Hypoplastic Left Heart Syndrome after Fontan Repair: Challenges and Opportunities. 29th Great Wall International Congress of Cardiology
October, 2019, Beijing, PRC
113. “Adults with Congenital Heart Disease with Single Ventricle Defect”
May 2020, 14th Oriental Congress of Cardiology, Shanghai, PRC
114. “From Fetal Echocardiography to Fetal Cardiology: A Journey of over Half of a Century’
June 2020, Central China Congress of Cardiology, Zhengzhou, PRC
115. “From Fetal Echocardiography to Fetal Cardiology”
July 2020, Geisinger Medical Center, PA
116. “From Fetal Echocardiography to Fetal Cardiology: A Journey of over Half of a Century’
January 19, Grand Rounds at Department of Pediatrics, Einstein Medical Center, Philadelphia, PA