

Curriculum Vitae

Date Prepared: 2025-08-15

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Education

Year	Degree (Honors)	Field of Study (Thesis advisor for PhDs)	Institution
1987	PHD	Physics	UNIVERSITY OF ILLINOIS URBANA CAMPUS
1981	BS	Physics	PEKING UNIVERSITY - CHINA

Postdoctoral Training *[Include residency/fellowship]*

Year(s)	Titles	Specialty/Discipline (Lab PI for postdoc fellows)	Institution
01/1987 - 12/1990	Post Doc	- Biochemistry and Biophysics	University of Pennsylvania School of Medicine

Professional Development Training

Year(s)	Course or Program, Degree if any	Institution

Faculty Academic Appointments

Year(s)	Academic Title	Department	Academic Institution
01/2017 - Present	Professor	Radiology	University of Texas Southwestern Medical Center
01/2008 - 12/2017	Associate Professor	Radiology	University of Texas Southwestern Medical Center
01/2001 - 12/2008	Assistant Professor	Radiology	Baylor College of Medicine

01/1991 - 12/1993	Research Assistant Professor	Radiology	University of Pennsylvania School of Medicine
01/1990 - 12/1991	Research Assistant Professor	Biochemistry	University of Pennsylvania School of Medicine

Appointments at Hospitals/Affiliated Institutions

<u>Past</u>			
Year(s)	Position Title	Department/Division	Institution
01/2001 - 12/2008	MR Spectroscopist	Radiology	Texas Children's Hospital
01/1989 - 12/2001	MR Physicist/Spectroscopist	Radiology	Children's Hospital of Philadelphia
<u>Current</u>			
Year(s)	Position Title	Department/Division	Institution
01/2008 - Present	Research Faculty	Radiology	Children's Medical Center of Dallas

Other Professional Positions *[Industry, foundation, private practice]*

Year(s)	Position Title	Institution
01/1999 - 12/2001	Associate Member	The Children's Hospital of Philadelphia
01/1995 - 12/1999	Assistant Member	Children's Hospital of Philadelphia

Current Licensure and Certification

Licensure *[Do not include license number]*

Year(s)	State
01/2011 - 05/2027	Texas Medical Board

Board and Other Certification

Year(s)	Specialty	Certifying Organization
2011	Diagnostic Medical Physics	American Board of Radiology

Honors and Awards

Year	Name of Honor/Award	Awarding Organization
2021	Editor's Recognition Award	Radiology
2019	Editor's Recognition Award	Radiology
2016	Editor's Recognition Award	Radiology
2008	Editor's Recognition Award	Radiology
2006	Editor's Recognition Award	Radiology
1994	Ethel Brown Forederer Award for Excellence	Children's Hospital of Philadelphia
1986	Exxon Education Foundation Fellowship	Exxon Education Foundation

Major Administrative/Leadership Positions

Year(s)	Position Title	Institution

Committee Service (*Member, unless noted otherwise*)

Year(s)	Name of Committee	Institution/Organization
<u>University/Department</u>		
<u>Hospital</u>		
01/2023 - 12/2023	CT Quality Committee	Children's Medical Center of Dallas
01/2009 - Present	Member, MRI safety committee	Children's Medical Center of Dallas
01/2018 - Present	Member	Children's Medical Center of Dallas
01/1999 - 12/2001	Member	The Children's Hospital Philadelphia
01/1999 - 12/2001	Member	Children's Hospital of Philadelphia
<u>State/Regional</u>		
<u>National/International</u>		
06/2024 - Present	Web Communication ask expert committee	American Association of Physicists in Medicine (AAPM)
01/2013 - 12/2021	fMRI Technical Committee, Quantitative Imaging Biomarkers Alliance	Radiological Society of North America
01/2015 - 12/2021	MRI Coordination Committee, Quantitative Imaging Biomarkers Alliance	Radiological Society of North America

01/2014 - 12/2017	Maintenance of Certificate	American Association of Physicists in Medicine (AAPM)
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Professional Societies

Dates	Society Name, member
01/1993 - Present	International Society of Magnetic Resonance in Medicine , Member
01/2012 - Present	American Association of Physicists in Medicine , Member
01/2013 - 12/2019	BioIron Society , Member
	Committees
	Fellowships

Community Engagement

Year(s)	Role, brief description	Organization or institution

Educational Activities

1. Direct Teaching

Date	Course Name, Rotation or Session Topic	Role	Number of Instruction hours	Primary Learner Audience (number)	Department or Organization
<u>Medical and Graduate School (UME) Course Instruction, Small Group Instruction, Clinical Supervision</u>					
01/2011 - Present	MRI Physics for Radiology Fellows (CD: Elena Vinogradov) "Fourier Transformation", "Data Space", "New Scanning Features & Parallel Imaging", "Magnetic Susceptibility Mapping" - Radiology Fellows; 3-4 lectures per school year				UT Southwestern Medical Center at Dallas

01/2018 - 12/2018	BME5372 MRI physics - Graduate Students				UT Southwestern Medical Center at Dallas
08/2016 - 12/2016	PDRT 5299 - SUPERVISED RESEARCH 2.0				UT Southwestern Medical School
05/2016 - 08/2016	PDRT 5299 - SUPERVISED RESEARCH 2.0				UT Southwestern Medical School
01/2016 - 05/2016	PDRT 5399 - SUPERVISED RESEARCH 3.0				UT Southwestern Medical School
05/2015 - 08/2015	PDRT 5299 - SUPERVISED RESEARCH 2.0				UT Southwestern Medical School
<u>Graduate Medical Education (GME) Course Instruction, Small Group Instruction, Clinical Supervision</u>					
<u>Instructor in Continuing Medical Education (CME), Faculty Development, National Educational Symposia</u>					

2. Curriculum Development

Date	Course Name or Curriculum Product	Role	Purpose	Primary Learner Audience	Organization or Institution

3. Mentoring and Advising

Date	Mentee Name	Mentee Level/ Program and Institution	Role	Mentee Outcomes, Current Position
12/2013 - 12/2017	Trainee Name / Degree: Shaheen Ahmed, PhD	Post doc fellow of Dr. Rollins, UTSW	Mentor	Lecturer, University of Texas Dallas, Department of Electrical and Computer Engineering
01/2009 - 12/2011	Trainee Name / Degree: Youngseob Seo, PhD	Post doc fellow of Dr. Rollins, UTSW	Mentor	Associate Professor, Korea Research

				Institute of Standard and Science
2002-2005	Trainee Name / Degree: Robert J.Thorton, PhD	Post doc fellow, Baylor College of Medicine	Mentor	Faculty in Astrophysics at West Chester University
2002-2005	Trainee Name / Degree: Zili David Chu, PhD	Post doc fellow, Baylor College of Medicine	Mentor	Assistant Professor, Baylor College of Medicine

4. Learner Assessment Activities or Tool Development

Date	Course Name or Session Topic	Role	Number of Evaluation Hours	Primary Learner Audience	Organization or Institution

5. Educational Administration and Leadership

Date	Title	Responsibilities	Time (FTE or hours)	Organization and Program Scope	Outcomes

Grant Review Activities

Year(s)	Name of Review Committee	Organization

Editorial Activities

Year(s)	Journal Name
<u>Editor/Associate Editor</u>	
<u>Editorial Board</u>	
<u>Ad Hoc Reviewer</u>	

Grant Support [Include Educational Grants]

<u>Active</u>	Grantor: NIH-National Institute of Neurological Disorders and Stroke
	Title of Project: IND-enabling studies for Aspartylglucosaminuria (AGU) to support the initiation of an AAV9/AGA gene transfer clinical trial (Steven Gray)
	Role (Principal Investigator, Co-Investigator): Co-Investigator
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Active</u>	Grantor: Internal
	Title of Project: Patient Specific 3D Printing and Virtual Reality Simulation for Intubation Planning
	Role (Principal Investigator, Co-Investigator): Principal Investigator
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Active</u>	Grantor: Internal
	Title of Project: DTI studies of pediatric brain, normal and disorders
	Role (Principal Investigator, Co-Investigator): Co-Investigator
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor: Children's Clinical Research Advisory Committee (CCRAC) Children's Health
	Title of Project: Cardiac evaluation of children with Pectus Excavatum using cardiac MR
	Role (Principal Investigator, Co-Investigator): Co- Investigator
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor: Cancer Prevention and Research Institute of Texas
	Title of Project: Using Imaging and Computational Tools to Improve Risk Stratification in Children (10% Effort)
	Role (Principal Investigator, Co-Investigator): Co- Investigator
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor: UTSW Department of Surgery
	Title of Project : MRI in Pediatric Patients with Nuss Bar for correction of Pectus Excavatum
	Role (Principal Investigator, Co-Investigator): <i>Co- Investigator</i>
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor: National Institutes of Health/National Institute of Dental and Craniofacial Research
	Title of Project: Correction of B0 inhomogeneity Induced by Orthodontic Appliances in MRI (30% Effort)
	Role (Principal Investigator, Co-Investigator): <i>Principal Investigator</i>
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor:
	Title of Project: Biological Substrates of Impaired Neurocognitive Functioning (5% Effort) (PI: Jonathan Posner, MD)
	Role (Principal Investigator, Co-Investigator): <i>Co-Investigator</i>
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor: Oakland Children's
	Title of Project: Determination of Reproductive State and Relation to Pituitary Iron Overload in Thalassemia Major Patients
	Role (Principal Investigator, Co-Investigator): <i>Consultant</i>
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor:
	Title of Project: Magnetic Resonance Imaging Techniques Using Compressed Sensing
	Role (Principal Investigator, Co-Investigator): <i>Principal Investigator</i>
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor: Internal
	Title of Project: Systematic Hypothermia for Hypoxic-Ischemic Encephalopathy: MRI Finding and Outcome
	Role (Principal Investigator, Co-Investigator): <i>Co-Investigator</i>
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor:
	Title of Project: Optimization and Implementation of Magnetic Resonance Arterial Wall Imaging (MR-AWI) Technique in Children
	Role (Principal Investigator, Co-Investigator): Co-Investigator
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor: Internal
	Title of Project: Apparent Diffusion Coefficient Histograms of Pediatric Brain Tumors
	Role (Principal Investigator, Co-Investigator): Co-Investigator
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor: Cooley Anemaia Foundation
	Title of Project: Determination of Reproductive State and Relation to Pituitary Iron Overload in Patients with Thalassemia Major
	Role (Principal Investigator, Co-Investigator): Consultant
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor: Internal
	Title of Project: Human Neonatal Brain MRI
	Role: Co-investigator
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor: Internal
	Title of Project: Functional MRI (fMRI) and Diffusion Tensor Imaging (DTI) in Children with Developmental Dyslexia
	Role: Co-investigator
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor: National Institutes of Health/New England Research Institute
	Title of Project: Modulation of Iron Deposition in SCD and Other Hemoglobinopathies (PI: Elliott Vichinsky, MD)
	Role: Consultant
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor: National Institutes of Health/National Cancer Institute
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	Title of Project: Methotrexate Neurotoxicity in Children with ALL (30% Effort) (PI: Nancy K. Rollins, MD)
	Role: Co-investigator
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor: National Institutes of Health/National Institute of Child Health and Human Development RO1HD
	Title of Project: Glucose and Lipid Metabolism in Obese Adolescents (5% Effort) (PI: Agneta L. Sunehag, MD)
	Role: Co-investigator
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor: Internal
	Title of Project: Assessment of Magnetic Resonance Imaging Characteristics of Classic and Variant Medulloblastomas
	Role: Co-investigator
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor: National Institutes of Health/National Institute of Neurological Disorders and Stroke
	Title of Project: Neurobehavioral Outcome of Head Injury in Children (10% Effort)
	Role: Co-investigator
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor: National Institutes of Health/National Institute of Neurological Disorders and Stroke
	Title of Project: Brain H1 2D MRS: Implementation and Initial Applications (45% Effort)
	Role: Principal Investigator
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor: Cooley Anemia Foundation
	Title of Project: MRI Susceptometry Measurement of Cardiac Iron Overload (15% Effort)
	Role: Principal Investigator
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

<u>Past</u>	Grantor: National Institutes of Health/National Institute of Diabetes and Digestive and Kidney Diseases/National Heart, Lung, and Blood Institute
	Title of Project: Quantitative Assessment of Iron Overload by MRI (50% Effort)
	Role: Principal Investigator
	Annual amount and date (direct costs only):
	Total amount of award (if multi-year) and dates (direct costs only):

Clinical Trials Activities

<u>Present</u>	Grantor:
	Title of Project:
	Role (Principal Investigator, Site PI, Sub investigator):

<u>Past</u>	Grantor:
	Title of Project:
	Role (Principal Investigator, Site PI, Sub investigator):

Invited Lectures

Year(s)	Title	Location
<u>International</u>		
2016	Quality Improvement of MRI. Beijing Children's Hospital,, Beijing,	Beijing, China
2013	MRI Physics Research. Internet lecture at Bi-weekly Philips North American MR Clinical Science & Advanced Development Series, Philips	
2007	MRI/MRS Measurements of Lipids in Obese Adolescents. Biochemisches Kolloquium, University Medical Center, Hamburg,	Hamburg, German
1992	Measurement of Oxygen Level in Skeletal Muscle By Proton MRS of Deoxymyoglobin. University of Liege Biochemistry Research Seminar Series, Hospital of the University of Liege, Liège	Wallonia, Belgium
<u>National</u>		
2025	Wang ZJ, Yuan Q, Chhabra A, Poster Presentation AAPM 2025 annual meeting	Washington

2015	Correction of MRI Susceptibility Artifacts Caused by Orthodontic Appliances: a Hardware Approach. Brain Imaging & Analysis Center faculty seminar, Duke University School of Medicine, Durham	North Carolina, United States
2015	MR Image Quality Improvement and Quality Control. Radiology Visiting Professor Lecture, Phoenix Children's Hospital	Phoenix, Arizona
2015	Correction of MRI Susceptibility Artifacts Caused by Dental Braces Using Permanent Magnets. Radiology MRI Physics Research Seminar, Johns Hopkins University	Baltimore, Maryland
2014	Annual Report of the fMRI Technical Committee. Quantitative Imaging Biomarker Alliance	Arlington, Virginia
2003	MRI Measurement of Iron Overload. Novartis ICL670 MRI Workshop, Novartis	Bethesda, Maryland
1999	MRS of Pediatric Brain Diseases. Workshop on Magnetic Resonance and Optical Imaging Techniques for Biomedical Applications. University of Pennsylvania	Philadelphia, Pennsylvania
<u>Regional/Local</u>		
2009	MRI Quality Control. Philips Pediatric MRI Users Meeting, Philips	Dallas, Texas

Technological and Other Scientific Innovations *[Patent, if any, pending or awarded /If described in print/on web, provide citation]*

Bibliography

Peer-Reviewed Publications *[List in chronological order with complete pagination. Authors should be listed in the same order as they appear in the published article.]*

Original Research Articles

1.	Ramjan, S., Gohel, S., Sands, S., Blair-Thies, M., Li, Y., Rollins, N., Wang, Z. J., Shaw, D., Dashnaw, S., Holland, A. A., Bledsoe, J., Posner, J. & Vachha, B. (2025). Journal of Pediatric Neuropsychology, published online June 12, 2005
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2.	Fei, G. T., Guo, A. W., Booth, T., Kiss, E., Hallac, R., Anderson, A. & Wang, Z. J. (2024). Proc SPIE Int Soc Opt Eng, PMID: 38863654 PMCID: PMC11166008 DOI: 10.1117/12.3007671.
3.	Singh, S., Alhasan, M., Wang, Z., Clarke, R., Xi, Y., Maldjian, J., Wagner, B. & Booth, T. (2023). J Neurosurg Pediatr., 31, 496-502.
4.	Singh, S., Alhasan, M. S., Wang, J., Clarke, R., Xi, Y., Maldjian, J., Wagner, B. & Booth, T. (2023). Journal of neurosurgery. Pediatrics, 31, 496-502. https://doi.org/10.3171/2023.1.PEDS22497 . PMID: 36883636
5.	Goodspeed, K., Horton, D. K., Lowden, A., Sguigna, P., Booth, T., Wang, J. & Edgar, V. (2022). JIMD Reports, 63, 425-433. https://doi.org/10.1002/jmd2.12294 . PMID: 36101820, PMCID: PMC9458605
6.	Berliner, C., Wang, J., Singer, S. T., Grosse, R., McDonough, R. V., Padua, E., Yuan, Q., Weyhmiller, M., James, E., Vichinsky, E., Adam, G., Yamamura, J., Bannas, P., Fischer, R. & Schoennagel, B. P. (2022). Clinical Neuroradiology, 32, 259-267. https://doi.org/10.1007/s00062-021-01111-4 . PMID: 34709410, PMCID: PMC8894216
7.	Seo, Y., Wang, J. (2022). IEEE Access, 10, 3206-3215. https://doi.org/10.1109/ACCESS.2021.3138748
8.	Molwitz, I., Campbell, G. M., Yamamura, J., Knopp, T., Toedter, K., Fischer, R., Wang, J., Busch, A., Ozga, A. K., Zhang, S., Lindner, T., Sevecke, F., Grosser, M., Adam, G. & Szwargulski, P. (2022). Investigative Radiology, 57, 463-469. https://doi.org/10.1097/RLI.0000000000000858 . PMID: 35148536, PMCID: PMC9172900
9.	Seo, Y., Wang, J. (2021). Scientific Reports, 11. https://doi.org/10.1038/s41598-020-80828-7 . PMID: 33441883, PMCID: PMC7807097
10.	Wang, J. (2021). Scientific Reports, 11. https://doi.org/10.1038/s41598-021-90157-y . PMID: 34012111, PMCID: PMC8134559
11.	Keller, S., Yamamura, J., Sedlacik, J., Wang, J., Gebert, P., Starekova, J. & Tahir, E. (2020). European Radiology, 30, 2830-2842. https://doi.org/10.1007/s00330-019-06576-z . PMID: 31953666
12.	Wang, J., Yamamura, J. & Keller, S. (2019). British Journal of Radiology, 92. https://doi.org/10.1259/bjr.20190133 . PMID: 31322916, PMCID: PMC6774594
13.	Keller, S., Wang, J., Aigner, A., Kim, A. C., Golsari, A., Kooijman, H., Adam, G. & Yamamura, J. (2019). Clinical Neuroradiology, 29, 231-242. https://doi.org/10.1007/s00062-018-0667-3 . PMID: 29392347
14.	Seo, Y., Rollins, N. K. & Wang, J. (2019). Scientific Reports, 9. https://doi.org/10.1038/s41598-019-49311-w . PMID: 31511553, PMCID: PMC6739503
15.	Keller, S., Wang, J., Golsari, A., Kim, A. C., Kooijman, H., Adam, G. & Yamamura, J. (2018). Acta Radiologica, 59, 560-568. https://doi.org/10.1177/0284185117726100 . PMID: 28795588
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17.	van der Heijden, G. J., Wang, J., Chu, Z. D., Haymond, M., Sauer, P. J. & Sunehag, A. L. (2018). Children, 5. https://doi.org/10.3390/children5060079 . PMID: 29914129, PMCID: PMC6025593
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23.	Singer, S. T., Killilea, D., Suh, J. H., Wang, J., Yuan, Q., Ivani, K., Evans, P., Vichinsky, E., Fischer, R. & Smith, J. F. (2015). American Journal of Hematology, 90, E190-E192. https://doi.org/10.1002/ajh.24083 . PMID: 26044409, PMCID: PMC4676944
24.	Seo, Y., Rollins, N. K. & Wang, J. (2015). Current Medical Imaging, 11, 207-215. https://doi.org/10.2174/1573405611666150511210000
25.	Pfeifer, C. D., Schoennagel, B. P., Grosse, R., Wang, J., Graessner, J., Nielsen, P., Adam, G., Fischer, R. & Yamamura, J. (2015). Journal of Magnetic Resonance Imaging, 42, 196-203. https://doi.org/10.1002/jmri.24752 . PMID: 25236606
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Clinical Practice Guidelines

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Non-peer reviewed scientific or medical publications/materials in print or other media (no abstracts)

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