

# Wenwen Jiang

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## EDUCATION

University of California, Berkeley  
Doctoral, Bioengineering, GPA: 3.83

BERKELEY, CA  
September 2011– present

University of California, Berkeley  
Master of Science, Electrical Engineering & Computer Sciences

BERKELEY, CA  
August 2012– May 2014

**Related Coursework:** Digital Image Processing, Computer Vision, Image Manipulation and Computational Photography, Linear System Theory, Convex Optimization, Advanced Image Reconstruction, Digital Signal Processing, Machine Learning, Medical Imaging Signals and Systems, Anatomy/Physiology

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## SUMMARY

Seeking for software engineer position in an innovative and dynamic environment

**Interests:** Computational Imaging, Computer Vision, Image Processing/Reconstruction, Signal Processing, Compressed Sensing, Machine Learning

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## EXPERIENCES

HeartVista, Inc

MENLO PARK, CA

Software Engineer Intern

May 2014 – August 2014

- Implemented fast MR image processing/reconstruction algorithms in C++
- Designed QT based GUI with Javascript interface and created unit tests for the main software product

UC Berkeley/UCSF Magnetic Resonance Imaging Lab

BERKELEY & SAN FRANCISCO, CA

Research Assistant with Professor Michael Lustig and Professor Peder Larson

August 2012 – present

- Develop rapid imaging acquisition/iterative reconstruction methods for different applications
- Design novel pulse sequences for imaging acquisition
- Motion estimation and correction for imaging
- Implement advanced image processing/signal processing techniques

Berkeley Imaging System Lab

BERKELEY, CA

Research Rotation with Professor Steve Conolly

September 2011 – December 2011

- Explored the properties and proved the feasibility of SPIO particles on a novel imaging modality
- Designed and built a medical MEMS device prototype

UC Berkeley

BERKELEY, CA

Graduate Student Instructor

August 2015 – May 2016

Medical Imaging Signals and Systems (EE145C):

- A cross-listed undergrad/grad class on general imaging mechanism and various medical imaging modalities
- Lead weekly discussion session and hold office hours

Principles of Magnetic Resonance Imaging (EE225E):

- Graduate class covering MRI physics, imaging principles, applications and advanced topics
  - Run lab sessions and hold office hours
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## SKILLS

- C/C++ (proficient), Matlab (proficient), Python, JavaScript (basic)
- Proficient in version control (Git/SVN)
- Proficient in UNIX or Linux platform

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## HONORS/AWARDS

- ISMRM Merit Awards: Summa Cum Laude (2016) and Magna Cum Laude (2015)
- Surbeck Young Investigator Award, 2nd Place (2015)
- GEMS Fellowship by HHMI (2014)
- First Place Outstanding Poster Presentation, Bioengineering Annual Retreat (2012)
- Guangdong HeJing Outstanding Student Scholarship, First Class Honor (2011)
- Ministry of Education of People's Republic of China National Scholarship (2010)
- National Undergraduate Mathematical Contest in Modeling, 3rd Prize (CUMCM' 2010)
- University Merit Scholarship (2008,2009,2010)

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## PUBLICATIONS

1. **Wenwen Jiang**, Peder E.Z. Larson, Michael Lustig. *Simultaneous Estimation of Auto-calibration Data and Gradient Delays in non-Cartesian Parallel MRI using Low-rank Constraints.* (in progress)
2. **Wenwen Jiang**, Frank Ong, Kevin M Johnson, Scott K Nagle, Thomas Hope, Michael Lustig, Peder E.Z. Larson. *Motion Robust High Resolution 3D Free-Breathing Pulmonary Imaging.* (in progress)
3. **Wenwen Jiang**, Michael Lustig, Peder E.Z. Larson. *Concentric Rings K-space Trajectory for Hyperpolarized C-13 MRSI.* *Magn Reson Med.* 2016 Jan;75(1):19-31.
4. Shuyu Tang, **Wenwen Jiang**, Hsin-yu Chen, Robert Bok, Daniel B. Vigneron, Peder E.Z. Larson. *Development of a Novel 2DRF Pulse Sequence to Achieve Improved Localization in Hyperpolarized C-13 imaging.* *Magn Reson Med.* 2015 Aug; 74:506-512.
5. **Wenwen Jiang**, Peder E.Z. Larson, Michael Lustig. *Simultaneous Estimation of Auto-calibration Data and Gradient Delays in non-Cartesian Parallel MRI using Low-rank Constraints.* In *Proceedings of the 24th ISMRM Annual Meeting and Exhibition, Singapore, 2016.*
6. **Wenwen Jiang**, Frank Ong, Kevin M Johnson, Scott K Nagle, Thomas Hope, Michael Lustig, Peder E.Z. Larson. *Soft-gating and Motion Resolved Reconstructions for Free-Breathing Pulmonary Imaging.* In *Proceedings of the 24th ISMRM Annual Meeting and Exhibition, Singapore, 2016.*
7. Misung Han, **Wenwen Jiang**, Roland Krug, Peder Larson, and Viola Rieke. *Acceleration of 3D UTE Imaging to Quantify Temperature Dependent T1 Changes in Cortical Bone.* In *Proceedings of the 24th ISMRM Annual Meeting and Exhibition, Singapore, 2016.*
8. **Wenwen Jiang**, Michael Lustig, Peder E.Z. Larson. *Parallel Imaging using a Concentric Rings Trajectory and Application to Hyperpolarized C-13 MRSI.* In *Proceedings of the 23rd ISMRM Annual Meeting and Exhibition, Toronto, Canada, 2015.*
9. **Wenwen Jiang**, Frank Ong, Roland Henry, Michael Lustig, Peder E.Z. Larson. *L1-ESPIRiT Reconstruction for accelerating 3D UTE and denoising.* In *Proceedings of the 23rd ISMRM Annual Meeting and Exhibition, Toronto, Canada, 2015.*
10. Frank Ong, Martin Uecker, **Wenwen Jiang**, Michael Lustig. *Fast Non-Cartesian Reconstruction with Pruned Fast Fourier Transform.* In *Proceedings of the 23rd ISMRM Annual Meeting and Exhibition, Toronto, Canada, 2015.*
11. **Wenwen Jiang**, Michael Lustig, John Pauly, Peder E.Z. Larson. *Variable Density 2D Spiral Excitation with Self Compressed Sensing.* In *Proceedings of the 22nd ISMRM Annual Meeting and Exhibition, Milan, Italy, 2014.*
12. **Wenwen Jiang**, Michael Lustig, Martin Uecker, Peder E.Z. Larson. *Evaluating the Efficiency of Concentric Rings K-space Trajectory for Hyperpolarized C-13 MRSI.* In *Proceedings of the 22nd ISMRM Annual Meeting and Exhibition, Milan, Italy, 2014.*
13. **Wenwen Jiang**, Michael Lustig, Peder E.Z. Larson. *Concentric Rings K-space Trajectory for Hyperpolarized C-13 MRSI.* In *Proceedings of the 21st ISMRM Annual Meeting and Exhibition, Salt Lake City, UT, USA, 2013.*