

Jingfei Liu

Texas Tech University
Department of Mechanical Engineering
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EDUCATION

Ph.D. Electrical and Computer Engineering	Georgia Institute of Technology	12/2020
Ph.D. Mechanics and Energy	Université de Lorraine, France	6/2014
M.S. Electrical and Computer Engineering	Georgia Institute of Technology	12/2012
M.S. Mechanical Engineering	Clarkson University	5/2009
B.A. English	Dalian University of Technology, China	6/2003
B.E. Process Equipment and Control	Dalian University of Technology, China	6/2002

POSITIONS

Assistant Professor	Texas Tech University, ME	2021-present
Instructor	Georgia Institute of Technology, BME	2018-2019
Research Assistant	Georgia Institute of Technology, ECE & BME	2017-2020
Postdoctoral Fellow	University of California, Davis, BME	2014-2017
Research Assistant	Georgia Tech Lorraine, ME & ECE	2009-2014
Teaching Assistant	Clarkson University, ME	2007-2009
Lecturer	Beijing Polytechnic, ME	2003-2007

HONORS & AWARDS

Teaching

- *Graduate Student Instructor of the Year*, Department of Biomedical Engineering & Center of Teaching and Learning, Georgia Tech 2019
- *'Thank a Teacher' Award*, Center of Teaching and Learning, Georgia Tech 2019
- *Winston Gandy Fellow Award*, Department of Biomedical Engineering, Georgia Tech 2018-2019
- *Award for Teaching Excellence*, Beijing Polytechnic, Beijing (*Top 5% faculty*) 2006
- *Excellent Instructor Award*, Beijing Polytechnic, Beijing (*Top 10% faculty*) 2005

Research

- Featured article on the cover of the Journal of Applied Physics, Volume 119, Issue 17 2016
- *Finalist of Student Paper Award in Medical Ultrasonics*, IEEE International Ultrasonics Symposium 2016
- *Postdoc Travel Grant*, Postdoctoral Scholars Association, UC Davis 2015
- *Bourse de Doctorat pour Ingénieurs*, Centre National de la Recherche Scientifique, France (*An honorable scholarship by French National Scientific Research Center*) 2009–2012

Service

- *Certificate of Reviewing*, Results in Physics 2017
- *Certificate of Reviewing*, Ultrasonics 2016

Scholarship & Others

- *Comprehensive Scholarship*, Dalian University of Technology (*Top 3% students*) 2000-2002

GRANTS

Pending

NIH (R01) Title: *Noninvasive transcranial ultrasound neuromodulation for obesity treatment*
 Total amount: \$2,404,525.86
 Role on project: **Principal Investigator** (Share: 60%)
 Co-Investigators: Andrew Shin (TTU)
 Dates: 7/1/2024-6/30/2028

TEACHING

Instructor, Department of Mechanical Engineering, Texas Tech University 2021-present

Fall 2023	<i>ME3370 Fluid Mechanics</i>	Undergrad.	60 students	?/5
Summer 2023	<i>Ultrasound Imaging</i>	Professional	17 students	NA
Spring 2023	<i>ME 3370 Fluid Mechanics</i>	Undergrad.	49 students	4.7/5
Fall 2022	<i>ME 3370 Fluid Mechanics</i>	Undergrad.	49 students	4.6/5
Summer 2022	<i>Medical Imaging</i>	Professional	33 students	NA
Spring 2022	<i>ME 3370 Fluid Mechanics</i>	Undergrad.	49 students	4.8/5
Fall 2021	<i>ME 3370 Fluid Mechanics</i>	Undergrad.	48 students	4.8/5
Spring 2021	<i>ME 3370 Fluid Mechanics</i>	Undergrad.	25 students	4.4/5

Instructor, Department of Biomedical Engineering, Georgia Institute of Technology 2018-2019

Spring 2019	<i>BMED 3400 Introduction to Biomechanics</i>	Undergrad.	48 students	4.0/5
Fall 2018	<i>BMED 3400 Introduction to Biomechanics</i>	Undergrad.	44 students	4.2/5

Lecturer, Beijing Polytechnic, China 2003-2007

Mechanical Graphics
Hydraulic and Pneumatic Control Technology
Fundamentals and Applications of Programmable Logic Controller

ADVISING

Advising at Texas Tech University**Postdoctoral & visiting scholar**

Hyunjo Jeong PhD, Professor, Department of Mechanical Engineering, 8/2023-present
 Wonkwang University, Iksan, Jeonbuk 54538, South Korea
Topic: Ultrasound medical imaging development using Verasonics system

Ph.D. students**Current**

Azin Nadi *Ultrasound guided wave elastography for medical diagnosis* 8/2021-present

* Awards obtained:

- ***Distinguish Graduate Student Assistantship***, Texas Tech University Graduate School and Department of Mechanical Engineering, 2023-2027.

Sanjay Mahat *Ultrasound-induced resonance for virus deactivation* 8/2022-present

* Awards obtained:

- ***J.T. and Margaret Talkington Graduate Fellowship***, Texas Tech University Graduate School, 2022-2026.

Sadman Labib *Application of focused ultrasound in cancer immunotherapy* 9/2021-present

* Awards obtained:

- ***3rd place of the Best Student Presentation Award***, the 2023 Spring BioMed Journal Club, College of Engineering.

Abdullah Masud *Ultrasonic elastography and its application* 5/2021-present

* Awards obtained:

- ***Student Transportation Subsidy*** to the 184th meeting of the Acoustical Society of America, Chicago, Illinois, May 8-12, 2023.
- ***Graduate Student Research Support Award***, the CH Foundation, Texas Tech University Office of Diversity, Equity & Inclusion, and the Graduate School, Spring 2023.
- ***Doctoral Dissertation Completion Fellowship***, Texas Tech University Graduate School, 2023-2024.

M.S. students

Roshan Sharma *Low-intensity ultrasound for selective cancer ablation* 8/2022-present

* Awards obtained:

- ***Graduate Student Research Support Award***, the CH Foundation, Texas Tech University Office of Diversity, Equity & Inclusion, and the Graduate School, Spring 2023.

Undergraduate students

Evin Timocin *Design optimization of therapeutic array transducer* Fall 2023

Luis Acosta *Acoustic emission for health monitoring* Fall 2023

Evin Timocin *Measurement of shear wave in soft tissue* Fall 2023

Ciani Sunderlin *Ultrasound in cancer immunotherapy* Fall 2021

Kabita Khanal *Acoustic field simulation for therapeutic array design* Fall 2021

Visiting students

Eva Vanstavel Graduate student from Arts et Métiers, France Spring 2023

Topic: The effect of element positions on the acoustic field of ultrasound therapeutic array transducer

Samin Enam Undergraduate student from Universiti Teknologi Malaysia Summer 2022

Topic: The application of focused ultrasound in cancer immunotherapy

Advising at Georgia Institute of Technology

M.S. students, Georgia Institute of Technology, Atlanta, GA 2018-2019

Jurjen Leer *Surface shear wave elasticity imaging*

Undergraduate students, Georgia Tech Lorraine, Atlanta, GA	2017-2020
Gabriela Sánchez <i>Numerical simulation of shear wave elasticity imaging</i>	2020
Kevin Wang <i>Acoustic field simulation for therapeutic array design</i>	2017-2020
<i>*This project won President's Undergraduate Research Award, 2018.</i>	
Undergraduate students, Georgia Tech Lorraine, Metz, France	2010-2013
Chelsea Dyess <i>Scanning acoustic microscopy of composite materials</i>	2013
Charlsie Lemons <i>Diffraction of ultrasound waves in a wedge structure</i>	2013
Taylor Breault <i>High frequency C-scan on composite structures</i>	2012
Andrew Bolduc <i>High frequency C-scan on corrugated surface</i>	2012
Cherish Weiler <i>Sound interaction with periodic surfaces</i>	2011
Surabhi Dosi <i>Sound interaction with anisotropic disks</i>	2011
Luis Balderrama <i>Ultrasonic characterization of anisotropic periodic structure</i>	2011
Vicky Prince <i>Ultrasonic investigation on anisotropy of materials</i>	2010

SERVICES

Editorial Board

Reviewer Editor, *Frontiers in Acoustics*, 2023-present.

Member, Topical Advisory Panel, *Signals*, 2020-2021.

Committee Service in Professional Societies

Acoustical Society of America, member of the technical committees: Physical Acoustics, Signal Processing in Acoustics, 7/2023-6/2026.

Acoustical Society of America, member of the administrative committees: Education in Acoustics, 7/2023-6/2026.

Reviewer of Federal Funding Agencies

National Science Foundation (NSF), Reviewer, NSF-Graduate Research Fellowship Program, Fiscal Year 2023.

Reviewer of Academic Journals

IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control | *Ultrasonics* | *Sensors* | *Energies* | *IEEE Transactions on Medical Imaging* | *Journal of Ultrasound in Medicine* | *Results in Physics* | *Journal of the Acoustical Society of America* | *Smart Materials and Structures* | *AIP Advances* | *Journal of Applied Physics* | *Applied Physics Letter* | *Journal of Testing and Evaluation* | *Materials* | *Current Medical Imaging Reviews* | *Applied Sciences* | *Sustainability* | *Smart Materials and Structures* | *Machines* | *Metals* | *Diagnosis* | *Waves in Random and Complex Media* | *Symmetry* | *Journal of Zhejiang University Science A* | *IEEE Access*

Reviewer of International Conferences

Biomedical Engineering Society (BMES) Annual Meeting, 6/2021, 8/2022, 5/2023.

Ph.D. Thesis Committee

Harsh Shah, Department of Nutritional Sciences, Texas Tech University, 6/2023.

Karl Gardner, Department of Chemical Engineering, Texas Tech University, 3/2023.

Justin Pippy, Department of Biomedical Engineering, University of Houston, 4/2022.

Institute Service at Texas Tech UniversityDepartment service

Faculty Advisor, Red Raider Racing, 8/2023-present.
 Ph.D. qualifying exam committee member for Mechanics of Materials, 3/2023.
 Member of the faculty search committee, 2022-2023.
 Advisor for undergraduate internship/co-op (ME 4000), 5 students, 6/2022-8/2022.
 Undergraduate career advising (21 students), 2021-present.
 Ph.D. qualifying exam committee member for Mechanics of Materials, 9/2021.

University service

Judge, Graduate School Poster Competition, March 3, 2023.
 Judge, The 14th Annual Undergraduate Research Conference, March 29-30th, 2022
 Judge, Graduate School Poster Competition, March 3, 2022.
 Member, Texas Tech STEM Center for Outreach, Research & Education, 2021-present.

Institute Service at Georgia Tech

Reviewer, Research proposal for President's Undergraduate Research Award	2018-2019
Judge, 13th Annual Undergraduate Research Spring Symposium	2018-2019

PROFESSIONAL SOCIETIES

Member	International Society of Therapeutic Ultrasound (BMES)	2022-present
Member	Biomedical Engineering Society (BMES)	2018-present
Member (elected)	Acoustical Society of America (ASA)	2011-present
Member	Institute of Electrical and Electronics Engineers (IEEE)	2011-present
Member	American Society of Mechanical Engineers (ASME)	2007-present

PUBLICATIONS

*Google Scholar Profile:***Journal Articles Submitted/Under Review**

2. Sadman Labib, **Jingfei Liu**, "Focused Ultrasound Induced Cancer Immunomodulation: A Review", *Ultrasound in Medicine and Biology*.
1. Abdullah A. Masud, **Jingfei Liu**, "Ultrasonic Surface Acoustic Wave Elastography: A Review of Basic Theories, Technical Development, and Medical Applications", *Medical Physics*.

Peer-Reviewed Journal Articles

21. **Jingfei Liu**, Jurjen Leer, Salavat Aglyamov, Stanislav Y. Emelianov, "A Scholte Wave Approach for Ultrasound Surface Wave Elasticity Imaging", *Medical Physics*, 50 (7), 4138-4150 (2023).
20. **Jingfei Liu**, Heechul Yoon, Stanislav Y. Emelianov, "Noninvasive Ultrasound Assessment of Tissue Internal Pressure Using Dual Mode Elasticity Imaging: A Phantom Study," *Physics in Medicine and Biology*, 68, 015012 (2022).

19. Lynda Chehamia*, **Jingfei Liu***, Pascal Pomarède, Paul Lohmuller, Boris Pittrowski, Fodil Meraghnich, Nico F. Declercq, “Ultrasonic Investigation of the Effect of Compressive Strains on 3D Periodic Bi-material Structures”, *Acta Acustica*, 6 (26) (2022). (***Contributed equally**)
18. Lingyi Zhao, Don Vanderaan, Heechul Yoon, **Jingfei Liu**, Stanislav Y. Emelianov, “Ultrafast Ultrasound Imaging of Surface Acoustic Waves Induced by Laser Excitation Compared with Acoustic Radiation Force,” *Optics Letters*, 45 (7), 1790-1793 (2020).
17. **Jingfei Liu**, Kevin Wang, Nico F. Declercq, “New perspectives on the physical origin of acoustic Wood anomalies,” *Acta Acustica united with Acustica*, 105 (2), 265-272 (2019).
16. Yu Liu*, **Jingfei Liu***, Brett Z. Fite, Josquin Foiret, Asaf Ilovitsh, J. Kent Leach, Erik Dumont, Charles F. Caskey, Katherine W. Ferrara, “Supersonic Transient Magnetic Resonance Elastography for Quantitative Assessment of Tissue Elasticity”, *Physics in Medicine and Biology*, 62 (10), 408 (2017). (***Contributed equally**)
15. Hua Zhang, Elizabeth S. Ingham, M. Karen J. Gagnon, Lisa M. Mahakian, **Jingfei Liu**, Josquin L. Foiret, Juergen K. Willmann, Katherine W. Ferrara, “In Vitro Characterization and In Vivo Ultrasound Molecular Imaging of Nucleolin-Targeted Microbubble”, *Biomaterials*, 118, 63-73 (2017).
14. **Jingfei Liu**, Nico F. Declercq, “Acoustic Wood Anomaly in Transmitted Diffraction Field”, *Journal of Applied Physics*, 121 (11), 114902 (2017).
13. **Jingfei Liu**, Nico F. Declercq, “Pulsed Ultrasonic Comb Filtering Effect and Its Applications in the Measurement of Sound Velocity and Thickness of Thin Plates”, *Ultrasonics*, 75, 199-208 (2017).
12. **Jingfei Liu**, Josquin Foiret, Douglas N. Stephens, Olivier Le Baron and Katherine W. Ferrara, “Development of A Spherically Focused Phased Array Transducer for Ultrasonic Image-Guided Hyperthermia”, *Physics in Medicine and Biology*, 61 (14), 5275-5296 (2016).
11. **Jingfei Liu**, Nico F. Declercq, “Experimental Investigation of the Dispersion of Scholte-Stoneley Waves on a Periodically Corrugated Surface”, *Applied Physics Letters*, 109 (26), 261603 (2016).
10. Anurupa Shaw, **Jingfei Liu**, Suk Wang Yoon and Nico F. Declercq, “Characterization of the Geometry of Microscale Periodic Structures Using Acoustic Microscopy”, *Ultrasonics*, 70, 258-265 (2016).
- *9. **Jingfei Liu**, Nico F. Declercq, “A Secondary Diffraction Effect and the Generation of Scholte-Stoneley Acoustic Wave on Periodically Corrugated Surface”, *Journal of Applied Physics*, 119 (17), 174901 (2016). (***This article is featured on the cover of the Journal of Applied Physics.**)
8. **Jingfei Liu**, Nico F. Declercq, “Investigation of the origin of acoustic Wood anomaly”, *Journal of the Acoustical Society of America*, 138 (2), 1168-1179 (2015).
7. Rayisa Moiseyenko, **Jingfei Liu**, Sarah Benchabane, Nico Declercq, and Vincent Laude, “Excitation of Surface Waves on One-dimensional Solid-fluid Phononic Crystals and the Beam Displacement Effect”, *AIP Advances*, 4 (12), 124202 (2014).
6. **Jingfei Liu**, Nico F. Declercq, “Experimental Observation of Acoustic Sub-harmonic Diffraction by a Grating”, *Journal of Applied Physics*, 115 (24), 244902 (2014).
5. **Jingfei Liu**, Nico F. Declercq, “Ultrasonic Geometrical Characterization of Periodically Corrugated Surfaces”, *Ultrasonics*, 53 (4), 853-861 (2013)

4. Rayisa P. Moiseyenko, **Jingfei Liu**, Nico F. Declercq and Vincent Laude, “Blazed Phononic Crystal Grating”, *Applied Physics Letters*, 102 (3), 034108 (2013).
3. **Jingfei Liu**, Nico F. Declercq, “Air-Coupled Ultrasonic Investigation of Staked Cylindrical Rods”, *Journal of the Acoustical Society of America*, 131 (6), 4500-4507 (2012).
2. **Jingfei Liu**, James D. Stephens, Brian R. Kowalczyk, Cetin Cetinkaya, “Real-time In-die Compaction Monitoring of Dry-coated Tablets”, *International journal of pharmaceutics*, 414, 171-178 (2011).
1. **Jingfei Liu**, Cetin Cetinkaya, “Mechanical and Geometric Property Characterization of Dry-Coated Tablets with Contact Ultrasonic Techniques”, *International Journal of Pharmaceutics*, 392, 148-155 (2010).

Conference Proceedings

12. Yu Liu, **Jingfei Liu**, Brett Z. Fite, Josquin Foiret, J. Kent Leach, Katherine W. Ferrara, “Quantitative MR-guided Transient Shear Wave Imaging for Tissue Elasticity Assessment”, *2016 IEEE International Ultrasonics Symposium (IUS)* (2016).
11. **Jingfei Liu** and Nico Declercq, Anurupa Shaw, “The Phenomenon of Secondary Diffraction of Sound on Periodically Corrugated Surface”, *Physics Procedia* 70, 249-252 (2015)
10. Nico F. Declercq, Peter McKeon, Yaacoubi Slash, **Jingfei Liu**, Anurupa Shaw, “Ultrasonic Imaging of Materials under Unconventional Circumstances”, *AIP Conference Proceeding* 1650, 24 (2015).
9. **Jingfei Liu** and Nico F. Declercq, “A Search for the Physical Origin of Acoustic Wood Anomaly”, *7th Forum Acusticum*, September 7-12, 2014, Kraków, Poland.
8. **Jingfei Liu**, Nico F. Declercq, “Time-Frequency Analysis of Wood Anomalies in Acoustics”, *Proceedings of Meetings on Acoustics (POMA)*, 19, 055075 (2013).
7. **Jingfei Liu**, Nico F. Declercq, “The Effects of the Transducer Beam Properties on the Ultrasonic Geometrical Characterization of Periodically Corrugated Surfaces”, *POMA*, 19, 030082, (2013).
6. **Jingfei Liu**, Nico F. Declercq, “Spectral Analysis of the Impact Defects in Composite Plates”, *Proceedings of the 2013 International Congress on Ultrasonics (ICU2013)*, 543-548 (2013).
5. Rayisa P. Moiseyenko, **Jingfei Liu**, Nico F. Declercq, Vincent Laude, “Plane Wave Diffraction on Blazed Phononic Crystal Gratings”, Abstract P0474, *ICU2013*, (2013).
4. Rayisa P. Moiseyenko, **Jingfei Liu**, Sarah Benchabane, Nico F. Declercq, Vincent Laude, “Scholte–Stoneley Waves on 2D Phononic Crystal Gratings,” *International Conference Days on Diffraction*, 178-182 (2012).
3. Rayisa P. Moiseyenko, **Jingfei Liu**, Sarah Benchabane, Nico F. Declercq, Vincent Laude, “Scholte–Stoneley Waves on Corrugated Surfaces and on Phononic Crystal Gratings”, *Proceedings of the Acoustics 2012 Nantes Conference*, 3671-3675, (2012).
2. **Jingfei Liu**, Nico F. Declercq, “Comparison of Different Approaches in Characterization of Impact Defects of Composite Plates”, *Proceedings of the Acoustics 2012 Nantes Conference*, 2659-2663, (2012).
1. **Jingfei Liu**, Nico F. Declercq, “Air-Coupled Ultrasonic Investigation of Stacked Cylindrical Rods”, *International Congress on Ultrasonics (Gdansk 2011)*, *AIP Conference Proceedings*, 1433, 323-326 (2012)

Patents

1. Yang Cao, Jingfei Liu, Haitao Ran, Zhigang Wang, Pan Li, “Digitally Controlled Low-intensity Focused Ultrasound Medical Imaging System”, CN201811014215.3, 2018.

PRESENTATIONS

Invited Talks

4. **Jingfei Liu**, “Surface and Guided Wave Elastography: Ultrasound Elastography Beyond Shear Wave Elastography”, *The 15th International Conference on Ultrasound Engineering for Biomedical Applications*, July 19-21, 2023, Los Angeles, California, USA.
3. **Jingfei Liu**, “Acoustics and Its Medical Applications: Three Examples”, Department of Electrical and Computer Engineering, Texas Tech University, Lubbock, Texas, April 14, 2023.
2. **Jingfei Liu**, “Interaction of ultrasound with periodic structures and composite materials”, University College VIVES, KU Leuven Association, Kortrijk, Belgium, June 13, 2014.
1. **Jingfei Liu**, Rayisa P. Moiseyenko, Sarah Benchabane, Nico F. Declercq, Vincent Laude, “Scholte-Stoneley Waves on Corrugated Surfaces and on Phononic Crystal Gratings”, *XV International Conference for Young Researchers: Wave Electronics and its Applications in the Information and Telecommunication System*, St. Petersburg, Russia, September 5-10, 2012.

Conference Presentations

34. **Jingfei Liu**, “Surface and Guided Wave Elastography: Ultrasound Elastography Beyond Shear Wave Elastography”, *The 15th International Conference on Ultrasound Engineering for Biomedical Applications*, July 19-21, 2023, Los Angeles, California, USA.
33. Abdullah A. Masud, **Jingfei Liu**, “A Scholte Wave Based Ultrasound Elastography Method For Imaging Superficial Tissue”, *184th Meeting of ASA*, May 8-12, 2023, Chicago, Illinois, USA.
32. **Jingfei Liu**, “An Ex Vivo Investigation of Ultrasonic Shear Wave Imaging for Detecting Liver Crack”, *181st Meeting of ASA*, November 29-December 3, 2021, Seattle, Washington, USA. (This work was featured in the ASA’s online press room for potential media coverage by national and international new organizations.)
31. Rajes Ram Muthukumar, Rabin Dhakal, **Jingfei Liu**, Raj Ganeshan, Hanna Moussa, Siva Parameswaran, "Numerical Modelling for Radiofrequency Ablation using Open Source CFD Code", 9th OpenFOAM Conference (virtual), October 19, 2021, Italy.
30. **Jingfei Liu**, Kevin Wang, Stanislav Emelianov, “An Evolutionary Algorithm Approach for Optimized Design of Spherically Shaped Therapeutic Phased Array Transducers”, *IEEE International Ultrasonics Symposium (IUS)*, October 6-9, 2019, Glasgow, Scotland, UK.
29. **Jingfei Liu**, Heechul Yoon, Kirill Larin, Salavat R. Aglyamov, Stanislav Emelianov, “Two Transducer Approach for Simultaneous High-Sensitivity and High-Resolution Shear Wave Elasticity Imaging”, *IEEE International Ultrasonics Symposium (IUS)*, October 6-9, 2019, Glasgow, Scotland, UK.
28. **Jingfei Liu**, Don Vanderlaan, Salavat R. Aglyamov, Kirill Larin, Stanislav Y. Emelianov, “In Vivo Shear Wave Elasticity Imaging of a Mouse”, *IEEE International Ultrasonics Symposium (IUS)*, October 6-9, 2019, Glasgow, Scotland, UK.
27. **Jingfei Liu**, Heechul Yoon, Stanislav Emelianov, “Ultrasound Assessment of Tissue Internal Pressure and Implications to Diagnosis”, *BMES Annual Meeting*, October 17-20, 2018, Atlanta, USA.

26. **Jingfei Liu** and Nico Declercq, “Acoustic Wood Anomaly: A Unique Phenomenon of Diffraction and Surface Acoustic Wave Generation on Periodically Corrugated Surface”, *2nd Franco-Chinese Acoustic Conference (FCAC)*, October 29-31, 2018, Le Mans, France.
25. Yu Liu, **Jingfei Liu**, Brett Fite, Josquin Foiret, J. Kent Leach, Katherine W. Ferrara, “Quantitative MR-guided Transient Shear Wave Imaging for Tissue Elasticity Assessment”, *IEEE International Ultrasonics Symposium (IUS)*, September 18-21, 2016, Tours, France.
24. Yu Liu, **Jingfei Liu**, Brett Z. Fite, Josquin Foiret, J. Kent Leach, Katherine W. Ferrara, “Quantitative Magnetic Resonance Imaging of Ultrasound Induced Transient Shear Waves”, *5th International Symposium on Focused Ultrasound*, August 28-September 1, 2016, North Bethesda, Maryland, USA.
23. Yu Liu, Brett Fite, Josquin Foiret, **Jingfei Liu**, Erik Dumont, Katherine W. Ferrara, “Magnetic Resonance-Guided Transient Shear Wave Imaging Using Constructive Multi-Pulse Transmission”, *IUS*, October 21-24, 2015, Taipei, Taiwan.
22. Jérémy Streque, **Jingfei Liu**, Christopher Bishop, Badreddine Assouar, Stefan McMurtry, Omar Elmazria, Abdallah Ougazzaden, and Nico F. Declercq, “Development of GaN Based Surface Acoustic Wave Sensor for Gas Sensing”, *International Congress on Ultrasonics (ICU)*, May 10-14, 2015, Metz, France.
21. **Jingfei Liu** and Nico Declercq, Anurupa Shaw, “The Phenomenon of Secondary Diffraction of Sound on Periodically Corrugated Surface”, *ICU*, May 10-14, 2015, Metz, France.
20. Junliang Dong, **Jingfei Liu**, Byungchil Kim, Alexandre Locquet, Nico Declercq, David Citrin, “Forced Delamination Characterization of Glass Fiber Composites Using Terahertz and Ultrasonic Imaging”, *ICU*, May 10-14, 2015, Metz, France.
19. Nico F. Declercq, **Jingfei Liu**, “A Search of the Physical Origin of Acoustic Wood Anomaly”, *7th Forum Acusticum*, September 7-12, 2014, Kraków, Poland.
18. Nico F. Declercq, Peter McKeon, **Jingfei Liu**, Anurupa Shaw, Rayisa Moiseyenko, Qi Wang, and Junliang Dong, “Ultrasonic Imaging of Materials Under Unconventional Circumstances”, *41st Annual Review of Progress in Quantitative Nondestructive Evaluation Conference (QNDE)*, July 20-25, 2014, Idaho, USA.
17. Vincent Laude, Rayisa P. Moiseyenko, Sarah Benchabane, **Jingfei Liu**, Nico F. Declercq, “Phononic Crystal Diffraction Gratings for Surface and Bulk Acoustic Waves”, *Phononics 2013*, June 2-7, 2013, Sharm ElSheikh, Egypt.
16. Anurupa Shaw, **Jingfei Liu**, Suk Wang Yoon, Nico F. Declercq, “Investigation of Sound Diffraction in Periodic Nano-structure Using Acoustic Microscopy”, *166th Meeting of the Acoustical Society of America (ASA)*, December 2-6, 2013, San Francisco, USA.
15. **Jingfei Liu**, Nico F. Declercq, “Acoustic Wood Anomaly Phenomenon in Transmission and Diffraction Fields”, *166th Meeting of ASA*, December 2-6, 2013, San Francisco, USA.
14. Rayisa P. Moiseyenko, **Jingfei Liu**, Nico F. Declercq, Vincent Laude, “Plane Wave Diffraction on Blazed Phononic Crystal Gratings”, *IUS*, July 21-25, 2013, Prague, Czech Republic.
13. **Jingfei Liu**, Nico F. Declercq, “The Effects of the Transducer Beam Properties on the Ultrasonic Geometrical Characterization of Periodically Corrugated Surfaces”, *21st IUS, 165th Meeting of ASA, 52nd Meeting of the Canadian Acoustical Association (CAA)*, June 2-7, 2013, Montréal, Canada.

12. **Jingfei Liu**, Nico F. Declercq, “Time-Frequency Analysis of Wood Anomalies in Acoustics”, *21st ICU, 165th Meeting of ASA, 52nd Meeting of CAA*, June 2-7, 2013, Montréal, Québec, Canada.
11. Rayisa P. Moiseyenko, **Jingfei Liu**, Nico F. Declercq, Vincent Laude, “Plane Wave Diffraction on Blazed Phononic Crystal Gratings”, *International Congress on Ultrasonics 2013*, May 2-5, 2013, Singapore.
10. **Jingfei Liu**, Nico F. Declercq, “Spectral Analysis of the Impact Defects in Composite Plates”, *IUS*, May 2-5, 2013, Singapore.
9. **Jingfei Liu**, Rayisa P. Moiseyenko, Sarah Benchabane, Nico F. Declercq, Vincent Laude, “Scholte-Stoneley Waves on Corrugated Surfaces and on Phononic Crystal Gratings”, *XV International Conference for Young Researchers: Wave Electronics and its Applications in the Information and Telecommunication System*, September 5-10, 2012, St. Petersburg, Russia.
8. Rayisa P. Moiseyenko, **Jingfei Liu**, Sarah Benchabane, Nico F. Declercq, Vincent Laude, “Scholte-Stoneley Waves on Phononic Crystal Gratings”, *IUS*, October 7-10, 2012, Dresden, Germany.
7. Rayisa P. Moiseyenko, **Jingfei Liu**, Sarah Benchabane, Nico F. Declercq, Vincent Laude, “Scholte-Stoneley Waves on 1D, 2D Phononic Crystal Gratings”, *Days on Diffraction 2012*, May 28-June 1, 2012, St. Petersburg, Russia.
6. Rayisa P. Moiseyenko, **Jingfei Liu**, Sarah Benchabane, Nico F. Declercq, Vincent Laude, “Scholte-Stoneley waves on corrugated surfaces and on phononic crystal gratings”, *Acoustics 2012*, April 23-27, 2012, Nantes, France.
5. **Jingfei Liu**, Nico F. Declercq, “Comparison of Different Approaches in Characterization of Impact Defects of Composite Plates”, *Acoustics 2012*, April 23-27, 2012, Nantes, France.
4. **Jingfei Liu**, Nico F. Declercq, “The Appearance and Use of Bragg Scattering Effects When Sound is Perpendicularly Incident on A Periodic Structure”, *162nd Meeting of ASA*, October 31-November 4, 2011, San Diego, California, USA.
3. **Jingfei Liu**, Nico F. Declercq, “Air-Coupled Ultrasonic Investigation of Periodic Structures Composed of Stacked Cylindrical Rods”, *IUC*, September 5-8, 2011, Gdansk, Poland.
2. Nico F. Declercq, Sarah Herbison, **Jingfei Liu**, Peter McKeon, Ebrahim Lamkanfi, “Ultrasonics of Periodic Structures”, 47th Annual Meeting of Society of Engineering Science, October 4-6, 2010, Ames, Iowa, USA.
1. **Jingfei Liu**, Cetin Cetinkaya, “Contact Ultrasonic Methods for Mechanical Property Characterization of Trilayer Tablets”, *Center of Advanced Materials Processing Annual Meeting*, May 15-17, 2008, Canandaigua, NY.