

# Jingfei Liu

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## EDUCATION

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<b>Ph.D.</b>	Electrical and Computer Engineering	Georgia Institute of Technology	Dec. 2020
	Dissertation: <i>Development of ultrasound elastography methods for biomechanical assessment of soft tissue in medical diagnosis</i>		
	Advisor: Stanislav Emelianov		
<b>Ph.D.</b>	Mechanics and Energy	Université de Lorraine, France	June 2014
	Dissertation: <i>The interaction of ultrasound with periodic structures and composite structures</i>		
	Advisor: Nico Declercq, Abdallah Ougazzaden		
<b>M.S.</b>	Electrical and Computer Engineering	Georgia Institute of Technology	Dec. 2012
<b>M.S.</b>	Mechanical Engineering	Clarkson University	May 2009
<b>B.A.</b>	English	Dalian University of Technology, China	June 2003
<b>B.E.</b>	Process Equipment and Control	Dalian University of Technology, China	June 2002

## POSITIONS

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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
	Advisor: Katherine Ferrara	
Research Assistant	Georgia Tech Lorraine, ME & ECE	2009-2014
Teaching Assistant	Clarkson University, ME	2007-2009
Lecturer	Beijing Polytechnic, ME	2003-2007

## HONORS & AWARDS

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<i>Graduate Student Instructor of the Year</i> , Wallace H. Coulter Department of Biomedical Engineering & Center of Teaching and Learning, Georgia Tech	2019
<i>'Thank a Teacher' Award</i> , Center of Teaching and Learning, Georgia Tech	2019
<i>Winston Gandy Fellow Award</i> , Wallace H. Coulter Department of Biomedical Engineering, Georgia Tech-Emory	2018-2019
<i>Certificate of Reviewing</i> , Results in Physics	2017
<i>Certificate of Reviewing</i> , Ultrasonics	2016
Featured article on the cover of the Journal of Applied Physics, Volume 119, Issue 17	2016
<i>Finalist of Student Paper Award in Medical Ultrasonics</i> , IEEE International Ultrasonics Symposium	2016
<i>Postdoc Travel Grant</i> , Postdoctoral Scholars Association, University of California, Davis	2015

<i>Bourse de Doctorat pour Ingénieurs</i> , Centre National de la Recherche Scientifique, France (An honorable scholarship awarded by French National Scientific Research Center)	2009–2012
<i>Award for Teaching Excellence</i> , Beijing Polytechnic, Beijing (Top 5% faculty)	2006
<i>Excellent Instructor Award</i> , Beijing Polytechnic, Beijing (Top 10% faculty)	2005
<i>Comprehensive Scholarship</i> , Dalian University of Technology, China (Top 3% students)	2000-2002

## GRANTS

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Winston Gandy Fellowship. Wallace H. Coulter Department of Biomedical Engineering, Georgia Tech-Emory. \$4k.	2018-2019
Bourse de Doctorat pour Ingénieurs (Doctoral Fellowship for Engineers). Centre National de la Recherche Scientifique, France (French National Scientific Center). € 54k.	2009-2012

## TEACHING

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<b>Instructor</b>	Texas Tech University, Department of Mechanical Engineering <i>ME 3370 Fluid Mechanics</i>	2021-present Spring 2021
<b>Instructor</b>	Georgia Institute of Technology, Department of Biomedical Engineering <i>BMED 3400 Introduction to Biomechanics</i>	2018-2019 Fall 2018, Spring 2019
<b>Lecturer</b>	Beijing Polytechnic, China <i>Mechanical Graphics</i> <i>Hydraulic and Pneumatic Control Technology</i> <i>Fundamentals and Applications of Programmable Logic Controller</i>	2003-2007

## ADVISING

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<b>MS students</b> , Georgia Institute of Technology, Atlanta, GA		2018-2019
Jurjen Leer	<i>Surface shear wave elasticity imaging</i>	
<b>Undergraduate students</b> , Georgia Tech Lorraine, Metz, France		2017-2020
Gabriela Sánchez	<i>Surface shear wave elasticity imaging</i>	Spring 2020
Kevin Wang	<i>Acoustic field simulation for therapeutic array design</i> <i>*This project won President's Undergraduate Research Award, 2018.</i>	Fall 2017- Spring 2020
<b>Undergraduate students</b> , Georgia Tech Lorraine, Metz, France		2010-2013
Chelsea Dyess	<i>Scanning acoustic microscopy of composite materials</i>	Spring 2013
Charlsie Lemons	<i>Diffraction of ultrasound waves in a wedge structure</i>	Spring 2013
Taylor Breault	<i>High frequency C-scan on composite structures</i>	Spring 2012
Andrew Bolduc	<i>High frequency C-scan on corrugated surface</i>	Spring 2012
Cherish Weiler	<i>Sound interaction with periodic surfaces</i>	Fall 2011
Surabhi Dosi	<i>Sound interaction with anisotropic disks</i>	Fall 2011
Luis Balderrama	<i>Ultrasonic characterization of anisotropic periodic structure</i>	Spring 2011

## SERVICES

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### Reviewer for Journals (selected)

*IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*  
*IEEE Transactions on Medical Imaging* | *Journal of Ultrasound in Medicine*  
*Journal of the Acoustical Society of America* | *Ultrasonics*  
*Journal of Applied Physics* | *Applied Physics Letter* | *Results in Physics*  
*Current Medical Imaging Reviews* | *Smart Materials and Structures*  
*Smart Materials and Structures* | *Journal of Testing and Evaluation*  
*AIP Advances* | *Applied Sciences* | *Sensors*  
*Sustainability* | *Materials* | *Energies* | *Machines*

### Invited Reviewer and Judge for Undergraduate Research

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

## PROFESSIONAL SOCIETIES

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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

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### Journal Publications

21. **Jingfei Liu**, Salavat R. Aglyamov, Stanislav Y. Emelianov, "High-Sensitivity and High-Resolution Shear Wave Elasticity Imaging Based on A Dual-Transducer Approach", *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency*, xx (x), xxxx-xxxx (2021). *In review*.
20. **Jingfei Liu**, Jurjen Leer, Salavat Aglyamov, Stanislav Y. Emelianov, "A Scholte Wave Approach for Ultrasound Surface Wave Elasticity Imaging", *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency*, xx (x), xxxx-xxxx (2021). *In press*.
19. **Jingfei Liu**, Heechul Yoon, Stanislav Y. Emelianov, "Noninvasive Ultrasound Assessment of Tissue Internal Pressure Using Dual-Mode Elasticity Imaging", *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency*, xx (x), xxxx-xxxx (2021). *In press*.
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-Stoney 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-Stoney 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 pharmaceuticals*, 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 Pharmaceuticals*, 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–Stoney 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–Stoney 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

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### Invited Seminars

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–Stoney 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.

## Conference Presentations

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-Stoney 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-Stoney 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-Stoney 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-Stoney 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.