
Agnieszka Roginska, Ph.D.

Music Technology
Music and Performing Arts Professions
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Curriculum Vitae

Education

Northwestern University	Music Technology	Ph.D. 2004
New York University	Music Technology	M. Mus. 1998
McGill University	Piano Performance (Major), Computer Applications in Music (Honors)	B.Mus. 1996

Professional Experience**New York University, New York, NY**

2006 – present	Music Professor in Music Technology, Department of Music and Performing Arts Professions, Steinhardt School (2020 – present) Music Associate Professor in Music Technology, Department of Music and Performing Arts Professions, Steinhardt School (2013 – 2020) Assistant Professor in Music Technology, Department of Music and Performing Arts Professions, Steinhardt School (2006 – 2013)
2007 – 2022	Director of the Music Technology Summer Programs (Summer Institute of Music Production and Technology; Summer Electronic Music Institute; Summer Institute of Music Technology; Girls Electronic Music Stars)
2009 – 2018	Associate Director of Music Technology, Department of Music and Performing Arts Professions, Steinhardt School
2019 – 2020	Vice-Chair, Music and Performing Arts Professions Department, Steinhardt School

Sennheiser, Palo Alto, CA

2006	Audio Research Scientist
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Audio Simulation Inc, Mountain View, CA

2004 – 2006	Audio Research Scientist
2000 – 2004	Audio Software Specialist

Professional Society Governance**Audio Engineering Society**

2023 – present:	AES Director (Board of Directors and Board of Governors)
2022 -2023:	AES Governor (Board of Governors)
2021:	AES Past President (Board of Directors and Board of Governors)
2020:	AES President (Board of Directors and Board of Governors)
2019:	AES President Elect (Board of Directors and Board of Governors)
2016 – 2018:	AES Governor (Board of Governors)
2009 – 2011:	AES Governor (Board of Governors)

Books and Book Chapters

- Roginska, A., Geluso, P. Editors. (2017) "Immersive Sound: The Art and Science of Binaural and Multi-Channel Audio", Routledge-Focal Press.
- Roginska, A. "Auditory icons, earcons, and displays: information and expression through sound", (2013) "Psychology of Music in Multimedia", Editors S.L. Tan, A. Cohen, R. Kendall, S. Lipscomb. Oxford Press.
- Roginska, A., Geluso, P. Editors. (In Progress) "Designing the Immersive Sound Experience", Routledge-Focal Press.
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Peer-Reviewed Journal and Conference Articles

- Lubetzky, A., Harel, D., Krishnamoorthy, S., Fu, G., Morris, B., Medlin, B., Medlin, A., Wang, Z., Perlin, K., Roginska, A., Cosetti, M., Kelly, J. (2023) "Decrease in Head Sway as a Measure of Sensory Integration Following Vestibular Rehabilitation: A Randomized Controlled Trial", *Journal of Vestibular Research*, Accepted for publication Feb 13, 2023.
- Plass, J., Perlin, K., Roginska, A., Hovey, C., Frohlich, F., Maso, A., Olsen, A., He, Z., Pahle, R., Ghosh, S. (2022). Designing Effective Playful Collaborative Science Learning in VR. In: Söbke, H., Spangenberg, P., Müller, P., Göbel, S. (eds) *Serious Games. JCSG 2022. Lecture Notes in Computer Science*, vol 13476. Springer, Cham. https://doi.org/10.1007/978-3-031-15325-9_3
- Lubetzky, A., Kelly, J., Harel, D., Roginska, A., Hujsak, B., Wang, Z., Perlin, K., Cosetti, M. (2022) "Insight into postural control patterns in unilateral sensorineural hearing loss, vestibular hypofunction and age-matched controls", *PLoS ONE* 17(10): e0276251. <https://doi.org/10.1371/journal.pone.0276251>
- Olsen, A., Roginska, A., Plass, J. (2022) "Multilayered Affect-Audio Research System for Virtual Reality Learning Environments", *Proceedings of the AES conference on Audio for Virtual and Augmented Reality (AVAR)*, Redmond WA.
- Gospodarek, M., Warusfel, O., Roginska, A. (2022) "Methodology for perceptual evaluation of plausibility in audio Augmented Reality", *Proceedings of the AES conference on Audio for Virtual and Augmented Reality (AVAR)*, Redmond WA.
- Riaz, M., Roginska, A. (2022) "The Psychoacoustic Perception of Distance in Monophonic and Binaural Music", *Proceedings of the Audio Engineering Society (AES) 153rd Convention*, New York NY.
- Hernandez Martinez D., Roginska, A., Riaz, M. (2022) "Immersive soundfield microphone techniques: an experimental approach to recording music", *Proceedings of the Audio Engineering Society (AES) 153rd Convention*, New York NY.
- Plass, J., Perlin, K., Roginska, A., Hovey, C., Maso, A.S., Olsen, A., He, Z., Pahle, R., Ghosh, S. (2022) "Playful Collaborative Science Learning in VR", *Serious Games: Joint International Conference, JCSG 2022*, Weimar, Germany, September 22–23, 2022. https://doi.org/10.1007/978-3-031-15325-9_3
- Olsen, A., Roginska, A., Plass, J. (2022) "The Feedback Layer from MAARS: An Audio Layer from the Multilayered Affect-Audio Research System for VR Learning Environments", *Proceedings of the International Conference on Auditory Display (ICAD)*, June 24-27, 2022.
- Growney, E., Roginska, A. (2022) "Effect of spatial audio processing on attention redirection and speech intelligibility in multi-talker communication", *Proceedings of the 152nd Audio Engineering Society Convention*, May 7-8, The Hague, Netherlands.
- Hupke, R., Genovese, A., Sridhar, S., Roginska, A., Peissig, J. (2020) "Analysis of Rhythmic Synchronization Strategies in Networked Music Performances", *Proceedings of the 27th Conference of Open Innovations Association FRUCT*.
- Lubetzky, A., Gospodarek, M., Arie, L., Kelly, J., Roginska, A., and Cosetti C., (2020) "A Review of Auditory Contribution to Postural Control in Adults", accepted for publication, *JAMA Otolaryngology - Head and Neck Surgery*.
- Wu, Y., Roginska, A. (2019) "Analysis and training of human sound localization behavior with VR application", *Proceedings of the International AES Conference on Immersive and Interactive Audio*, March 27-29, York, UK.
- Gospodarek, M., Genovese, A., Dembeck, D., Brenner, C., Roginska, A., Perlin, K. (2019) "Sound Design and Reproduction Techniques for Co-Located Narrative VR Experiences", *Proceedings of the 147th Audio Engineering Society Convention*, October 21-24 2019, New York, NY.
- Reardon, G., Genovese, A., Zalles, G., Flanagan, P., Roginska, A., (2018) "Evaluation of Binaural Renderers:

- Multidimensional Sound Quality Assessment", Proceedings of the AES International Conference on Audio for Virtual and Augmented Reality, August, 20-22. Redmond, WA.
- Genovese, A., Zalles, G., Reardon, G., Roginska, A., (2018) "Acoustic perturbations in HRTFs measured on MixedReality Headsets", Proceedings of the AES International Conference on Audio for Virtual and Augmented Reality, August, 20-22. Redmond, WA.
- Wu, Y.H., Murakami, S., Roginska, A. (2018) "Comparison of Measured and Simulated Room Impulse Response for an Interactive Music Making Environment in Mixed Reality", Proceedings of the AES International Conference on Audio for Virtual and Augmented Reality, August, 20-22. Redmond, WA.
- Shukla, R., Stewart, R., Roginska, A., Sander, M. (2018) "User selection of optimal HRTF sets via holistic comparative evaluation", Proceedings of the AES International Conference on Audio for Virtual and Augmented Reality, August, 20-22. Redmond, WA.
- Reardon, G., Genovese, A., Zalles, G., Flanagan, P., Roginska, A., (2018) "Evaluation of Binaural Renderers: Localization", Proceedings of the 144th Audio Engineering Society Convention, Milan, May 23-26.
- Reardon, G., Zalles, G., Flanagan, P., Roginska, A., (2018) "Evaluation of Binaural Renderers: Externalization, Front/Back and Up/Down Confusions", Proceedings of the 144th Audio Engineering Society Convention, Milan, May 23-26.
- Gionfrida, L., Roginska, A., (2017) "A novel sonification approach to support the diagnosis of Alzheimer's Dementia", Journal of Frontiers in Neurology, 8:647.
- Andreopoulou, A., Roginska, A. (2017) "Database Matching of Sparsely Measured Head-Related Transfer Functions", Journal of the Audio Engineering Society, 65(7-8), p.552-561.
- Calle, J.S., Roginska, A. (2017). "Head Rotation Data Extraction From Virtual Reality Gameplay Using Non-Individualized HRTFs", Proceedings of the 143rd Audio Engineering Society Convention, New York, NY, October 18-21.
- Olko, M., Wu, Y.H., Dembeck, D., Genovese, A., Roginska, A., (2017). "Subjective Assessment of perceived sound quality attributes of 360 recordings using the Repertory Grid Technique", Proceedings of the 143rd Audio Engineering Society Convention, New York, NY, October 18-21.
- Miller, C., Juras, J., Genovese, A., Roginska, A. (2016). "Interaural Distances In Existing HRIR Repositories", Proceedings of the AES Conference on Headphone Technology, Aalborg, Denmark August 24-26, 2016.
- Genovese, A., Juras, J., Miller, C., Roginska, A. (2016). "The Effect of Elevation on ITD Symmetry", Proceedings of the AES Conference on Headphone Technology, Aalborg, Denmark August 24-26, 2016.
- Genovese, A., Juras, J., Miller, C., Roginska, A. (2016). "Investigation of ITD symmetry across existing databases of personalized HRTFs", Proceedings of the 22nd International Conference on Auditory Display, Canberra, Australia, July 2-8, 2016.
- Mathew, M., Cetinkaya, M., Roginska, A. (2016) "BSonia: A 3D EEG Sound Installation", Proceedings of the 22nd International Conference on Auditory Display, Canberra, Australia, July 2-8, 2016.
- Gionfrida, L., Roginska, A., Keary, J., Mohanraj, H., Friedman, K. (2016). "The Triple Tone Sonification Method to Enhance the Diagnosis of Alzheimer's Dementia", Proceedings of the 22nd International Conference on Auditory Display, Canberra, Australia, July 2-8, 2016.
- Andreopoulou, A., Roginska, A. (2014). "Evaluating HRTF Similarity through Subjective Assessments: Factors that can Affect Judgment", Proceedings of the 40th ICMC – 11th SMC Conference, Athens, Greece, 14-20 September, 2014.
- Roginska, A., Mohanraj, H., Keary, J., Friedman, K. (2014). "Sonification Method to Enhance the Diagnosis of Dementia", International Conference on Auditory Display, New York, 22-25 June, 2014.
- Aswathanarayana, S., Roginska, A., (2014) "I Hear Bangalore3D: Capture And Reproduction Of Urban Sounds Of Bangalore Using An Ambisonic Microphone", International Conference on Auditory Display, New York, 22-25 June, 2014.
- Boren, B., Musick, M., Grossman, J., Roginska, A. (2014) "I Hear NY4D: Hybrid Acoustic and Augmented Auditory Display for Urban Soundscapes", International Conference on Auditory Display, New York, 22-25 June, 2014.
- Boren, B., Andreopoulou, A., Musick, M., Mohanraj, H., Roginska, A. (2013) "I Hear NY3D: Ambisonic Capture and Reproduction of an Urban Sound Environment", Proceedings of the 135th Audio Engineering Society Convention, New York, NY, October 17-20.

- Boren, B., Roginska, A. Gill, B. (2013) "Maximum Averaged and Peak Levels of Vocal Sound Pressure", Proceedings of the 135th Audio Engineering Society Convention, New York, NY, October 17-20.
- Roginska, A., Friedman, K., Mohanraj, H. (2013). "Exploring sonification for augmenting brain scan data", Proceedings of the 19th International Conference on Auditory Displays, July 6-10. Lodz, Poland.
- Roginska, A., Friedman, K., Mohanraj, H., Ballora, M. (2013). "Immersive sonification for displaying brain scan data", Proceedings of the 6th International Conference on Health Informatics, Barcelona, 11-14 February.
- Andreopoulou, A., Roginska, A. (2012). "Computer Aided Estimation of the Athenian Agora Aulos Scales Based on Physical Modeling", Proceedings of the 133rd Audio Engineering Society Convention, San Francisco, October 26-29.
- Roginska, A. (2012) "Effect of Spatial Location and Presentation Rate on the Reaction to Auditory Displays", The Journal of the Audio Engineering Society, 60(7-8), p.497-504
- Roginska, A., Case, A. U., Madden, A., Anderson, J. (2012) "Measuring spectral directivity of an electric guitar amplifier", Proceedings of the 132nd Audio Engineering Society Convention, Budapest, April 26-29.
- Roginska, A., Wakefield, G. H., McMullen, K. (2011) "Performance of Using Orientation Search during an Auditory Navigation and Search Task Using Avatar, Natural, and Static Mediations", International Conference on Auditory Display, June 20-24, Budapest, Hungary.
- Roginska, A., Wakefield, G. H., Santoro, T.S. (2010) "User Selected HRTFs: Reduced Complexity and Improved Perception", Proceedings of the Undersea Human System Integration Symposium 2010, July 27-29, Providence, RI.
- Roginska, A., Wakefield, G. H., Santoro, T.S. (2010) "Use of Interfaces in an Auditory Environment during a Navigation and Search Task", Proceedings of the Undersea Human System Integration Symposium 2010, July 27-29, Providence, RI.
- Wakefield, G. H., Roginska, A., Santoro, T.S. (2010) "Human-Constrained Design of Spatial Audio Systems", Proceedings of the Undersea Human System Integration Symposium 2010, July 27-29, Providence, RI.
- Wakefield, G. H., Roginska, A., Santoro, T.S. (2010) "Enhancement of Perceived Figure-Ground for Spatial Audio in Underwater Environments", Proceedings of the Undersea Human System Integration Symposium 2010, July 27-29, Providence, RI.
- Roginska, A., Wakefield, G. H., Santoro, T.S., McMullen, K. (2010) "Effects of Interface Type on Navigation in a Virtual Spatial Auditory Environment", Proceedings of the 16th International Conference on Auditory Displays, June 9-15, Washington D.C.
- Roginska, A. (2007) "The influence of presentation speed and spatial location on the reaction time to auditory displays", Proceedings of the 13th International Conference on Auditory Displays, June 26-29. Montreal, Canada.
- Carneal, J., Chapin, W., Gillett, P., Johnson, M., Roginska, A., (2007) "Acoustic source detection, characterization, and localization from diffracting microphone array", Proceedings of the 30th Audio Engineering Society Conference, March 15-17. Saariselka, Finland.
- Roginska, A., Childs, E., Johnson, M.K. (2006) "Monitoring real-time data: a sonification approach", Proceedings of the 12th International Conference on Auditory Displays, June 20-23. London, UK.
- Roginska, A., Begault, D.R. (2002) "Observed Effects of HRTF Measurement Signal Level", Audio Engineering Society 21st International Conference on Architectural Acoustics and Sounds Reinforcement, June 1-3. St. Petersburg, Russia.
- Kendall, G.S., Roginska, A., Mann, D. (1999) "SoniKWURM: Desktop Software for Rendering 3D Audio", Audio Engineering Society 16th International Conference on Spatial Sound Reproduction, April 10-12. Rovaniemi, Finland.

Peer-Reviewed (Abstract/Précis) and Published Conference Proceedings

- Riaz, M., Roginska, A. (2022) "The psychoacoustic perception of distance in monophonic and binaural audio formats", Proceedings of the 2022 ISMIR conference. December 4-8, Bengaluru, India.

- Hernandez Martinez, D., Roginska, A. (2020) "Augmented reality tempo control tool for conducting students", Proceedings of the 149th AES Convention, New York, NY.
- Genovese, A., Bui, C., Bradley, T., Roginska, A. (2020) "Multimodal Immersive Motion Capture (MIMiC): A workflow for musical performance", Proceedings of the 149th AES Convention, New York, NY.
- Genovese, A., Gospodarek, M., Roginska, A. (2019) "Mixed Realities: a live collaborative musical performance", Proceedings of the 5th International Conference on Spatial Audio ICASA, Verband Deutscher Tonmeister, September 26-28, Ilmenau, Germany.
- Genovese, A., Roginska, A. (2019) "HMDiR: an HRTF dataset measured on a mannequin wearing XR devices", Proceedings of the International AES Conference on Immersive and Interactive Audio, March 27-29, York, UK.
- Vanasse, J., Genovese, A., Roginska, A. (2019) "Multichannel Impulse Response Measurements in MATLAB: An Update", Proceedings of the International AES Conference on Immersive and Interactive Audio, March 27-29, York, UK.
- Wu, Y., Murakami, S., Roginska, A. (2019) "The Effect of Transitioning Between Individualized and Generic HRTFs on Localization Performance in a Virtual Environment", Proceedings of the International AES Conference on Immersive and Interactive Audio, March 27-29, York, UK.
- Roginska, A., Lee, H., Mendez, A. E., Murakami, S. (2019) "CityTones: a Repository of Crowdsourced Annotated Soundfield Soundscapes", Proceedings of the 146th Audio Engineering Society Convention, Dublin, Ireland, March 20-23.
- Genovese, A., Roginska, A. (2019) "XR-DB: An HRTF database measured with HMD occlusions", Proceedings of the Audio Engineering Society International Conference on Immersive and Interactive Audio, York, UK. March 27-29.
- Vanasse, J., Genovese, A., Roginska, A. (2019) "Multichannel Impulse Response Measurements in MATLAB: An Update", Proceedings of the Audio Engineering Society International Conference on Immersive and Interactive Audio, York, UK. March 27-29.
- Reardon, G., Roginska, A., Flanagan, P., Calle, J., Genovese, A., Zalles, G., Olko, M., Jerez, C. (2017). "Evaluation of Binaural Renderers: A Methodology", Proceedings of the 143rd Audio Engineering Society Convention, New York, NY October 18-21.
- Zalles, G., Kamel, Y., Anderson, I., Lee, M. Y., Neil, C., Henry, M., Cappiello, S., Mydlarz, C., Baglione, M., Roginska, A., (2017) "Low-Cost, High-Quality MEMS Ambisonic Microphone", Proceedings of the 143rd Audio Engineering Society Convention, New York, NY October 18-21.
- Olko, M., Dembeck, D., Wu, Y.H., Genovese, A., Roginska, A., (2017) "Identification of Perceived Sound Quality Attributes of 360° Audiovisual Recordings in VR Using a Free Verbalization Method", Proceedings of the 143rd Audio Engineering Society Convention, New York, NY October 18-21.
- Juras, J., Miller, C., Roginska, A. (2015) "Modeling ITDs Based On Photographic Head Information", Proceedings of the 139th Audio Engineering Society Convention, New York, NY October 29 – November 1.
- Mydlarz, C., Nacach, S., Roginska, A., Park, T.H. (2014) "The Implementation of MEMS Microphones for Urban Sound Sensing", Proceedings of the 137th Audio Engineering Society Convention, Los Angeles, CA, October 9-12.
- Mydlarz, C., Nacach, S., Roginska, A., Park, T.H. (2014) "The Design of Urban Sound Monitoring Devices", Proceedings of the 137th Audio Engineering Society Convention, Los Angeles, CA, October 9-12.
- Andreopoulou, A., Roginska, A., Bello, J.P. (2013) "Reduced representations of HRTF datasets: A Discriminant Analysis Approach", Proceedings of the 135th Audio Engineering Society Convention, New York, NY, October 17-20.
- Musick, M., Andreopoulou, A., Boren, B., Mohanraj, H., Roginska, A. (2013) "I Hear NY3D: an ambisonic reproduction of NYC's soundscapes", Proceedings of the 135th Audio Engineering Society Convention, New York, NY, October 17-20.
- Majdak, P., Ziegelwanger, H., Wiersdorf, H., Parmentier, M., Nicol, R., Noisternig, M., Roginska, A., Carpentier, T. (2013), "Spatially Oriented Format for Acoustics: A Data Exchange Format Representing Head-Related Transfer Functions", Proceedings of the 134th Audio Engineering Society Convention, Rome, Italy, May 4-7, 2013.
- Roginska, A., Mathew, J., Anderson, J., Case, A.U., (2013) "High resolution radiation pattern measurements of a grand piano – the effect of attack velocity", Journal of the Acoustical Society of America, Vol. 133, Issue 5, May 2013: 3234.
- Boren, B., Roginska, A., (2013) "The maximum intelligible range of the unamplified human voice", Journal

- of the Acoustical Society of America, Vol. 134, Issue 5, November 2013:3969.
- Boren, B., Roginska, A., (2013) "Sound radiation of trained vocalizers", Journal of the Acoustical Society of America, Vol. 133, Issue 5, May 2013: 3321.
- Case, A.U., Roginska, A., Anderson, J., Mathew, J., (2013) "Electric Guitar - A Blank Canvas for Timbre and Tone", Journal of the Acoustical Society of America, Vol. 133, Issue 5, May 2013: 3308.
- Roginska, A., Case, A. U., Mathew, J., Madden, A., Anderson, J. (2012) "Measurement and analysis of the spectral directivity of an electric guitar amplifier: vertical plane", Proceedings of the 133rd Audio Engineering Society Convention, San Francisco, October 26-29
- McMullen, K., Roginska, A., Wakefield, G.H. (2012) "Subjective Selection of HRTF Spectral Coloration and ITD", Proceedings of the 133rd Audio Engineering Society Convention, San Francisco, October 26-29
- Boren, B., Roginska, A., (2012) "Analysis of noise sources in colonial Philadelphia", Proceedings of the 41st International Congress on Noise Control Engineering, Inter-noise 2012, August 19-22, New York, NY
- Case, A., Roginska, A., Madden, A., Anderson, J., (2012) "A measurement technique achieving high spatial resolution for sound sources within a performance venue", Journal of the Acoustical Society of America, Vol. 132, Issue 3, September 2012: 1912.
- Boren, B., & Roginska, A. (2012). "Computer simulation of Benjamin Franklin's acoustic experiment on George Whitefield's oratory." Journal of the Acoustical Society of America, Vol. 132, Issue 3, September 2012: 2085.
- Case, A., Roginska, A., Anderson, J., (2012) "Spatial Variability Of Timbre For An Electric Guitar Amplifier," Journal of the Acoustical Society of America, Vol. 131, Issue 4, April 2012: 3469.
- Wakefield, G.H., Roginska, A., Santoro, T. (2012) "Auditory detection of infrapitch signals for several spatial configurations of pink noise maskers", Proceedings of the 41st International Congress on Noise Control Engineering, Inter-noise 2012, August 19-22, New York, NY
- Boren, B., Roginska, A. (2011) "The Effects of Headphones on Listener HRTF Preference". Proceedings of the 131st Audio Engineering Society Convention, Oct 20-23. New York, NY.
- Boren, B., Roginska, A., (2011) "Multichannel Impulse Response Measurement in Matlab". Proceedings of the 131st Audio Engineering Society Convention, Oct 20-23. New York, NY.
- Andreopoulou, A., Roginska, A. (2011) "Towards the Creation of a Standardized HRTF Repository", Proceedings of the 131st Audio Engineering Society Convention, Oct 20-23. New York, NY.
- Andreopoulou, A., Roginska, A., Bello, J.P. (2011) "Observing the Clustering Tendencies of Head Related Transfer Function Databases", Proceedings of the 131st Audio Engineering Society Convention, Oct 20-23. New York, NY.
- Madden, A., Blumenthal, P., Andreopoulou, A., Boren, B., Hu, S., Shi, Z, Roginska, A. (2011) "Multi-Touch Room Expansion Controller for Real-Time Acoustic Gestures", Proceedings of the 131st Audio Engineering Society Convention, Oct 20-23. New York, NY.
- Roginska, A., Wakefield, G. H., Santoro, T.S. (2010) "Stimulus-dependent HRTF preference", Proceedings of the 129th Audio Engineering Society Convention, Nov 4-7. San Francisco, CA.
- Santoro, T.S., Roginska, A., Wakefield, G. H. (2009) "Listening within you and without you: center-surround listening in multi-modal displays", Proceedings of the 127th Audio Engineering Society Convention, October 9-12, New York, NY.
- Kestian, A., Roginska, A. (2008) "Apparatus comparison for the characterization of spaces", Proceedings of the 125th Audio Engineering Society convention, October 2-5, San Francisco, CA.
- Beecher, M., Santoro, T.S., D'Angelo, W., Carter, S., Roginska, A., Wakefield, G.H., Chapin, W., Lawrence, D., Shellman, R., Bayes, A., Reinfield, J. (2008) "Adaptive Research Process for a Multimodal Sonar Display: A Paradigm Shift in the Way We Do Research", Proceedings of the 2008 Undersea Human Systems Integration Symposium, July 30-31, Bremerton, WA.
- Roginska, A., Scott, F. (2008) "Room-dependent preference of Virtual Surround Sound", Proceedings of the 124th Audio Engineering Society Convention, May 17-20, Amsterdam.
- Kestian, A., Roginska, A. (2008) "Computer learning method for scattering junction identification", Journal of the Acoustical Society of America, Vol. 123, Issue 5, May 2008: 3432.

Kestian, A., Roginska, A. (2008) "Junction Identification Using Acoustic Reflectometry", Proceedings of the 124th Audio Engineering Society convention, May 17-20, Amsterdam.

Begault, D.R., Godfroy, M., Miller, J.D., Roginska, A., Anderson, M.R., and Wenzel, E.M. (2006) "Design and verification of HeadZap, a semi-automated HRIR measurement system", Proceedings of the 120th Audio Engineering Society Convention, May 20-23. Paris, France.

Technical Reports and Other Publications

Santoro, T.S., Wakefield, G.H., Roginska, A. (2011) "Studies on a Spatialized Audio Interface for Sonar", Technical Report NSMRL/50709/TR--2011-0031, report for the Naval Submarine Research Laboratory (NSMRL).

Roginska, A. (2010) "Professional Audio Education for the 21st Century", Professional Sound magazine, *Input* story, Vol. 21 No. 5.

Roginska, A., Storckman, J. (2005) "Biologically-Inspired Acoustic Source Localization System", Technical Report for Project R-47373-CI-ST1-04181-1, report for the U.S. Army.

Chapin, W., Zurek, P., Shinn-Cunningham, B., Bolas, M., Roginska, A., Cook, Surucu, F., Foster, S., Desloge, J., Beaudoin, R., Durlach, N., McDowell, I., Lorimer, E. (2003) "Concept & Technology Exploration for Transparent Hearing", Technical Report Number A548234, report for the U.S. Government Department of Defense Agencies.

Storckman, J., Roginska, A. (2003) "Improving Binaural Simulation of Structural Acoustics", Technical Report for Project 25301020100, report for the National Aeronautics and Space Administration (NASA).

Grants and Awards	Funding
• Roginska, A. Unrestricted research gift, Logitech. May 2022.	\$50,000
• Roginska, A. Lubetzky, A., Harel, D. (PI) "A Sound Assessment of Dynamic Balance", MARL Seed Grant. August 1, 2022 – August 31, 2023.	\$10,000
• Roginska, A. Unrestricted research gift, Logitech. May 2021.	\$50,000
• Lubetzky, A., Cosetti, M., Hujsak, B., Perlin, K., Roginska, A., (Co-PI). "Sensory integration of auditory and visual cues in diverse contexts given age, vestibular hypofunction and hearing loss", National Institute on Deafness and Other Communication Disorders (NIH). July 2019 – June 2022.	\$464,684
• Bello, J.P., McFee, B., Roginska, A. (Co-PI), "S3D: Spatial Sound Scene Description", National Science Foundation Computer and Information Science and Engineering (CISE). May 2019 – April 2022. (Award # 1955357)	\$1.2M
• Roginska, A., THX-NYU 3D audio rendering. Funded Research by THX. May 2017 – May 2018.	\$32,263
• Burleson, W., Roginska, A., Plass, J., Shelley, M., Perlin, K. (Co-PI) "MRI: Development of an Experiential Supercomputing Transdisciplinary Research and Innovation "Holodeck". National Science Foundation (NSF) Major Research Instrumentation. August 2016 – August 2022.	\$2.9M
• Roginska, A. Unrestricted gift, Oculus. December 2014.	\$25,000
• Roginska, A. (Co-PI) Bello, J., Park, T.H., Dubois, L., "Acquisition, analysis, classification, and visualization of urban noise", Center of Urban Science and Progress (CUSP). May 2013 – April 2014	\$250,000
• Roginska, A. (Co-PI), Friedman, K. Immersive Sonification for Augmenting Brain PET Scan Analysis, Clinical and Translational Science Institute (CTSI) Pilot Project. January 2013 – December 2013	\$50,000
• Roginska, A. (PI) Three-Dimensional Sound Radiation Pattern Measurements of Musical Instruments, Technology Award, Steinhardt School Challenge Grant, New York University.	\$15,000

Awarded May, 2011.

- Rowe, R., Anderson, J., Bello, J.P., Farbood, M., Mavromatis, P., Roginska, A. and Vishio, A. Music and Audio Research Laboratory, Working Research Group, Humanities Initiative, New York University. Awarded March, 2009. \$10,000
- Roginska, A. (PI) "Spatial headphone technologies", Research grant from Sennheiser Research Laboratory. August, 2008. \$20,000
- Roginska, A. (PI) Acoustic Geometric Reconstruction: Application of Acoustic Pulse Reflectometry for Measuring Geometric Spaces. New York University Steinhardt Summer Development Award, May 2007. \$5,000
- Roginska, A. (PI) Acoustic Geometric Reconstruction, New York University Research Challenge Fund. Awarded May 2007. \$14,000
- Santoro, T.S., Roginska, A. (Co-PI of Applied Binaural Research), Wakefield, G.H. State-of-the-Art, Multi-Modal (Aural-Visual) Tools for Increased Situation Awareness in Sonar, Office of Naval Research. Binaural Research team for Federal partner Naval Submarine Medical Research Laboratory (NSMRL). (2006 –2010) \$4.5M
- Roginska, A. (PI) Biologically Inspired Acoustic Direction Finding for Soldiers, Small business Technology TRansfer (STTR) Phase II (2005-2006, U.S. Army). \$750,000
- Roginska, A. (PI) Biologically Inspired Acoustic Direction Finding for Soldiers, Small business Technology TRansfer (STTR) Phase I (2004-2006, U.S. Army). \$100,000
- Roginska, A. (PI) Improving Binaural Simulation of Structural Acoustics, Small Business Innovation Research (SBIR) Phase II (2002-2006, NASA). \$600,000
- Roginska, A. (PI) Improving Binaural Simulation of Structural Acoustics, SBIR Phase I (2002, NASA). \$70,000
- Roginska, A. (PI) Automated Auditory Cueing and Spatialization System, SBIR Phase I (2001, NASA). \$70,000

Patents

Abel, J., Roginska, A. Method and apparatus for estimating spatial content of soundfield at desired location, U.S. Patent #9,578,419. Granted 2/21/2017.

Service

Academic Chairperson

- Workshops Co-Chair of the AES Audio for Virtual and Augmented Reality Conference, August 15-17 2022.
- Convention Co-Chair and head of the organizing committee of the 147th Audio Engineering Society (AES) Convention, Javits Center, New York, NY, October 16-19, 2019.
- Convention Chair and head of the organizing committee of the 143rd Audio Engineering Society (AES) Convention, Javits Center, New York, NY, October 18-21, 2017.
- Co-Chair of the 20th International Conference on Auditory Display (ICAD), June 2014.
- Convention Chair and head of the organization committee of the 127th Audio Engineering Society Convention, Javits Center, New York, NY, October 9-12 2009.
- Audio Engineering Society Convention Policy Committee Chair, 2010 – 2014.
- Audio Engineering Society Convention Policy Committee Vice-Chair 2009-2010.
- Paper Co-Chair for the 131st Audio Engineering Society Convention, Javits Center, New York NY (Oct. 2011).
- Paper Co-Chair of the 123rd Audio Engineering Society Convention, Javits Center, New York NY (Oct. 2007).

Professional Service (external)

- Chair, AES Events Coordination Committee (2021-present)
- Chair, AES Laws and Resolutions Committee (2023)
- Chair, AES Awards Committee (2022)
- Chair, AES Nominations Committee (2021)
- Executive Board Member of the AES Educational Foundation (2017 – present)
- Co-Editor of the Journal of the Audio Engineering Society of the Special Issue on Auditory Displays.
- Executive Committee member of Ear to the Earth (2011-2018).
- Executive Board member of the International Community on Auditory Displays (invited position) (2010-2015).
- Audio Engineering Society Awards Committee member, 2010 – 2016.
- Audio Engineering Society Nominations Committee member, 2009-2010.
- SMC 2012 (Denmark) Technical Program Committee member, June 2012.
- AES Podcast: record monthly podcast for the Audio Engineering Society summarizing research articles, industry updates, and Society events. Podcast distributed to 50,000+ members (2008 – 2010).

Paper reviewer:

- The Journal of Human Factors and Engineering
- Journal of the Audio Engineering Society
- External paper reviewer for the Army Research Laboratory
- Joint conference NTAV/SPA, September 2012
- ICAD 18th International Conference, Atlanta, GA, June 2012
- ICAD 19th International Conference, Lodz, Poland, July 2013
- AES 138th Convention, Warsaw, Poland, May 2015
- AES 134th Convention, Rome, Italy, May 2013
- AES 132nd Convention, Budapest, Hungary, May 2012
- AES 130th Convention, London UK, May 2011
- ICAD 17th International Conference, Budapest, Hungary, June 2011
- AES 128th Convention, London UK, May 2010
- AES 126th Convention, Munich, Germany, May 2009
- AES 125th Convention, San Francisco, CA, October 2008
- AES 124th Convention, Amsterdam, Netherlands, May 2008

School Service

- Faculty Council Member for NYU Steinhardt (2014 – 2017)
- NYU Steinhardt Technical Committee member (2006 – 2013)
- NYU Steinhardt Arts and Culture Challenge Grant review committee (2008)

University Service

- Member of Faculty Search committee in Music for NYU Abu Dhabi (2011-2012 and 2012-2013)

Other Service

- Faculty sponsor of the Society of Women in TeCHnology (SWITCH) – a club to empower women in technology and engineering

Awards

2018 – Board of Governors Award, Audio Engineering Society
2015 – Fellowship Award, Audio Engineering Society
2009 – Board of Governors Award, Audio Engineering Society
1999 – School of Music Scholarship, Northwestern University
1998 – School of Music Scholarship, Northwestern University
1995 – Kiwanis Music Festival, Toronto, Canada – 1st Prize
1994 – Bruneau Prize – McGill University
1993 – Constance Willey Prize – McGill University
1992 – Montreal Chamber Orchestra Scholarship
1991 – Winner of the Prix d'Expression (Canada)
1991 – Montreal Classical Music Festival – 2nd Prize

Honors

07/2017 – present Executive Board Member of the AES Education Foundation
02/2011 - present Member of the Executive Committee of Ear to the Earth
10/2010 – 10/2014 Chair of the Audio Engineering Society Convention Policy Committee
10/2009 – 10/2010 Vice-Chair of the AES Convention Policy Committee (invited position)
06/2010 – 10/2014 Member of the Board of the International Community on Auditory Displays (invited position)

Invited talks

- Keynote speaker – Worldwide Music Conference (2021)
- Keynote speaker – Leading Women in Audio Conference (2020)
- Keynote speaker - AES Education Conference (2020)
- Keynote speaker - AES York Conference, York, UK (2019)
- Alliance for Women in Media and Arts Technology, Santa Barbara, CA (2019)
- University of California Santa Barbara, Media Arts & Technology (2018)
- Augmented Reality in Action Conference, New York, NY (2017)
- Georgia Tech, Atlanta, GA (2018)
- Mondo NYC, New York, NY (2017)
- Warsaw Chopin Academy, 60th anniversary of the Sound Recording, Warsaw, Poland (2015)
- Rhodes World Public Forum, Rhodes, Greece (2014)
- US Army Research Lab, Aberdeen Proving Ground, Acoustics Research, Aberdeen, MD (2010)

Course and Program Development

- Courses Taught:
 - Doctoral Seminar in Music Technology (Graduate)
 - Colloquy: Music Technology (Graduate)
 - Thesis in Music Technology (Graduate)
 - 3D Audio (Graduate)
 - Digital Audio Processing I (Graduate)
 - Digital Audio Processing II (Graduate)
 - Fundamentals of Digital Signal Theory (Graduate)
 - Capstone Project (Undergraduate)
 - Musical Acoustics (Undergraduate)
- Courses Developed:
 - Audio for the Web

- Special Topics in Audio Engineering
- Electronics by Computer Simulation
- Game Audio II
- Ear Training for Audio Engineers
- Procedural Audio
- Program Development:
 - Study Abroad of Music Technology program at NYU Paris
 - Summer programs developed:
 - 1) Summer Electronic Music Institute for High School students
 - 2) Summer Institute of Music Production and Technology for High School Students
 - 3) Summer Music Technology Intensive for College students
 - 4) Girls Electronic Music Stars (GEMS) for girls in Middle school

Diversity

- Faculty sponsor of the NYU Society of Women in TeCHnology (SWITCH)
 - SWITCH empowers women to succeed in technology related fields, be it academic or professional, with an emphasis on music technology and the industry and arts professions.
- Member of the AES Diversity and Inclusion committee
- Director of the Girls Electronic Music Stars (GEMS) summer program