

PATRICIA IZBICKI, PH.D.



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EDUCATION

- 2015 - 2020 **Ph.D., Neuroscience** Iowa State University - Ames, IA
Dissertation Advisor: Elizabeth Stegemöller, Associate Professor
Dissertation Title: Cognitive Inhibition and Motor Inhibition in Musicians Across the Lifespan
- 2010 - 2014 **B.M., Music Performance (Piano), *summa cum laude***, University of West Florida - Pensacola, FL
Kugelman Honors Thesis Advisor: Hedi Salanki-Rubardt, Distinguished Professor and Yamaha Artist
Kugelman Honors Thesis Title: Robert Schumann's Illness and Its Effect on His Music
College of Arts, Social Sciences, & Humanities Outstanding Student Award in Music Performance

WORK EXPERIENCE

- 2022 - current **Medical Science Liaison (Multiple Sclerosis)**, Octave (Silicon Valley Start-Up) – Menlo Park, CA
Identified, established, and maintained relationships with 50+ national and international key opinion leaders (KOLs) and advocacy groups to increase awareness and provide technical support of Octave Bioscience products (i.e., blood biomarker panel, quantitative enhanced MRI, and human tech mobile technology with wearable sensor).
- Attended top national and international conferences and supported key academic institutions across the U.S. Identified clinical insights and knowledge gaps.
- Co-drove conceptualization, design, and execution of contracts, MTAs, and research with blood biomarker panel and quantitative enhanced MRI products with external research partners, academic institutions, healthcare organizations, and industry partners (biotech and pharma). Authored 3 posters and 2 manuscripts. Authored value dossier and reimbursement/revenue cycle regulatory documentation.
- Co-created and executed on medical strategy and plans communicating technical and clinical data supporting new products or and/or new indications. Co-established and executed on medical strategy and plans communicating technical and clinical data supporting new products or and/or new indications. Implemented IIS strategy and process, medical communications function, and medical insights process.
- Cross-functional strategic and compliant leadership and support to C-suite, commercial, revenue cycle management, product, and data science teams.
- 2023 - current **Affiliate Assistant Professor of Medical Education**, Florida Atlantic University – Boca Raton, FL
Assisting in establishing arts in medicine research and education program in collaboration with VP for Medical Affairs, Dr. Julie Pilitsis.
- 2022 - 2023 **Fellow in Healthcare Technology Innovation**, Baptist Health Knight Foundation – Miami, FL
This competitive fellowship is designed to attract, train, and empower healthcare visionaries and entrepreneurs to develop a diverse and connected community of innovators at Baptist Health and in South Florida. Team placed second in pitch competition for mental health app *Mentali*.
- The yearlong fellowship has been adapted from distinguished programs that include the Stanford BioDesign program and graduate and professional courses taught by a world-renowned educator from Case Western Reserve University and Henry Ford Health System.
- The concepts, tools and network acquired by the fellows will lead to downstream entrepreneurial and innovation activities that can benefit patients, providers and our community.

Gained experience in importance & impact of intellectual property, regulatory environments, investment capital sources, development of new products, quantitative and qualitative methods, asset management, innovation skills, opportunity assessment, and economic modeling.

2021-2022

Medical Science Liaison (Migraine), AbbVie, Inc (Forbes 500 Company) – Miami, FL

Supported three marketed therapies within portfolio: onabotulinumtoxinA (Botox) for chronic migraine, ubrogepant (Ubrovelvy) for acute migraine, and atogepant (Qulipta) for prevention of migraine.

Post-marketing support for onabotulinumtoxinA and ubrogepant. Pre-launch and launch support for atogepant.

Identified, developed, and maintained professional relationships with 60+ thought leaders in private, academic, and community centers in migraine to ensure access to current medical and scientific information on AbbVie products (250 interactions per year).

Upon request, presented data on AbbVie products to healthcare professionals, including physicians, academic institutions, researchers, and other health care professionals.

Identified clinical insights and knowledge gaps along with identification and support of clinical trial sites and investigator-initiated studies.

Supported research initiatives as requested by AbbVie Research & Development, Clinical Operations, and Medical Affairs departments. Received 13 AbbVie Excellence Awards.

Supported round table and advisory board sessions to ensure accuracy of scientific and clinical data. Conducted on-going training to medical affairs, field sales, and other internal personnel as directed.

Subject matter expert in patient advocacy and southeast regional team affairs.

2020-2021

Medical Writer, SB Pharma Solutions, LLC – Chicago, IL

Monitored accuracy and precision of content and provided support to clients across the neurology/psychiatry space. Experience with Office, Teams, SharePoint, Zoho Project Management, and Veeva.

Wrote 7+ standard response letters, 1 AMCP dossiers, 2+ newsletters, 3+ slide decks and several standard operating procedures for using CSRs, ISEs, ISSs, and peer-review publications. Developed solid understanding of drug development and life-cycle management of products.

Therapeutic area experience in migraine, epilepsy, bipolar disorder, and cannabinoid education.

Adjunct Professor, Department of Psychology, University of West Florida – Pensacola, FL

Virtually instructed 80+ undergraduate students online (asynchronous) on the overview of the discipline of psychology, including expectations for the psychology major, career options for students completing a bachelor's degree in psychology, and career options for students who pursue a graduate degree in psychology.

Instructed basic skills required for research, proposal development, writing in APA style, and professional communication. Developed the course to meet high impact practice and high quality standards per the Florida Board of Education.

2020-2021

Retention Manager, All of Us Research Program, University of Miami – Miami, FL

Led, mentored, managed, and trained (remotely) the retention team in high-profile, \$60 million dollar grant involving nation-wide stakeholders from academia, industry, and government.

Implemented evidence-based models and strategies for remotely and digitally retaining over 10,000 participants. Increased retention in program by 60% during COVID-19 pandemic.

Served as technical and scientific resource for the Miami site. Anticipated and recommended relevant processes/technical/service improvements. Compiled, interpreted, and presented available data to provide weekly insights for retention efforts.

Established and monitored participant data acquisition and data management processes remotely. Adhered to GCP, NIH and University of Miami healthcare compliance/SOPs.

- 2018 - 2019 **Research Fellow**, International Arts + Mind Lab, Johns Hopkins University - Baltimore, MD
Drafted reports summarizing scientific literature and sensory, biological, and behavioral assessments to inform the Impact Thinking design of a sensory healing room for children with disorders of consciousness (Multi-Sensory CARE Room for Healing) at Kennedy Krieger Children's Hospital and The Creative Alliance.
- Analyzed and drafted article for Impact Thinking project Sound Resonance exploring the effect of music on biomarkers of stress and music preference in persons with dementia. Collaborated and discussed experimental design and data with experts and key opinion leaders in the field of neuroaesthetics.
- Published articles for the public audience on neuroaesthetics in the IAM Lab blog.
- 2015 - 2020 **Research Assistant**, Neurophysiology Lab, Iowa State University - Ames, IA
Determined the neural mechanisms, clinical implications, and educational benefits of music and music training on the brain and nervous system using electroencephalography, electromyography, and transcranial magnetic stimulation and cognitive/motor assessments in healthy young and older adults and persons with Parkinson's disease.
- Experience using Magstim BiStim², Delsys Trigno Wireless Electromyography, BioSemi ActiveTwo Electroencephalography, CED Spike2, Entra EGCS-DIS-25 uniaxial accelerometer, ANT Neuro, The Motion Monitor, E-Prime 3.0, MATLAB EEGLAB, EMSE Suite, JavaScript, IBM SPSS, SPM, ADNI database, and PPMI database.
- Managed and mentored over thirty undergraduate and graduate students. Communicated research with scholars, public university officials, general adult public, and elementary/middle school/high school students totaling 5 to 10 presentations a year.
- 2015 – 2020 **Choir Accompanist & Associate Director of Music**, First Baptist Church of Ames
Co-directed, programmed, and accompanied various styles of sacred and secular choir repertoire and collaborated with the music director in selection of repertoire for choir and chamber performances twice a week.

SERVICE

PROFESSIONAL

- 2022- 2024 **Executive Board Member**, Mind, Music, and Movement Foundation for Neurological Disorders
Non-profit focused on providing integrative medicine in individuals with Parkinson's and Alzheimer's disease and their caregivers. Accompanist for Voices of Parkinson's chorus.
- Board of Directors Member**, The Giving Voice Initiative
Non-profit focused on improving in individuals with dementia/Alzheimer's and their caregivers.
Established National Advisory Council.
- Brain Exploration Day Volunteer**, Max Planck Florida Institute for Neuroscience
- 2016 - 2021 **Neuroaesthetics and Grant Director**, Convergence Initiative
Advocate, Society for Neuroscience Hill Day
Member, Society for Neuroscience Trainee Advisory Committee
Leader, Society for Neuroscience Neuronline Community
Co-Chair, Symposium at Society for Neuroscience Annual Meeting: *Neuroscience of Music: Novel Discoveries and Their Implications in the Understanding of Music and the Brain*

INSTITUTIONAL

- 2016 - 2020 **External Assessor**, Department of Psychology, University of West Florida
Member, Kinesiology Undergraduate Scholarship Reviewer
President, Society for Neuroscience Ames Chapter
Member, Iowa State University CELT University Teaching Seminar Committee
Chair & Member, Iowa State University Neuroscience Research Day Committee
*Raised \$20,000 to recruit Dr. Robert Sapolsky and Dr. Lisa Feldman Barrett for keynote.
Member, Iowa State University Neuroscience Retreat Committee
Volunteer, Iowa State University Parkinson's Disease Outreach Groups (Yoga, Boxing, Singing)
Co-Chair, Iowa State University Neuroscience Professional Development Seminar Committee

COMMUNITY

2016 – 2020 **Guest**, Trust Included Podcast
Guest, WUWF Public Radio Story of Impact
Guest, Iowa Public Radio *Iowa Woman of Innovation*
Guest, KHOI Community Radio 89.1 FM *Neuroscience and Music*
Founder, Ames Public Piano Project
Volunteer, Science Center of Iowa Girls in Science Initiative

GRANTS (APPLIED)

2024 Renee Fleming Neuroarts Investigator Awards
2023 Music Man Foundation & UCSF Meredith Wilson Pilot Research Program
2021 NIH Music and Health: Understanding and Developing Music Medicine (R01 - Consultant)
2020 University of West Florida High-Impact Practices (HIP) Grant
2018 NIH Ruth L. Kirschstein Predoctoral National Research Service Award (F31)
2016 NSF Graduate Research Fellowship Program (NSF GRFP)
2015 NSF Graduate Research Fellowship Program (NSF GRFP)
2015 Iowa State University Focus Artist Grant (**Awarded**)

PUBLICATIONS

PEER-REVIEWED

1. Cairo, S., Kang, K., **Izbicki, P.**, Isinghood, M., Majid, T., & Pantelyat, A. (2024). The effects of personally preferred music on mood and behaviour in individuals with dementia: An exploratory pilot study. *Approaches: An Interdisciplinary Journal of Music Therapy*.
2. **Izbicki, P.**, Norman, M., Gettes, E., Elkin, C., Meyer, A., Gustafon, & E., Stegemöller, E. (2023). Preferred Music Listening Does Not Affect Cognitive Inhibition in Young and Older Adults. *Psychomusicology: Music, Mind, and Brain*. Advance online publication.
3. **Izbicki, P.**, Mendoza, T., Zaman A., & Stegemöller, E. (2023). Differences in Motor Cortical Activity During in Young and Older Musicians and Non-Musicians at Rest. *Frontiers in Aging Neuroscience*. 15:1230865.
4. **Izbicki, P.** & Svec, C.L (2022) Music Education and the Aging Brain. *Contributions in Music Education*. 47.
5. Stegemöller, E. L., Ferguson, T. D., Zaman, A., Hibbing, P., **Izbicki, P.**, & Krigolson, O. E. (2021). Finger tapping to different styles of music and changes in cortical oscillations. *Brain and Behavior*, 11(9), e2324.
6. **Izbicki, P.**, Stegemöller, E. L., Compton, J., & Thompson, J. (2021). Dancing for Parkinson's: A Gateway for Connectedness to Peers and Social Assurance. *CBE—Life Sciences Education*, 20(2), ar27.
7. **Izbicki, P.**, Zaman, A.F., & Stegemöller, E. (2020). Music Form but Not Music Experience Modulates Motor Cortical Activity in Response to Novel Music. *Frontiers in Human Neuroscience*, 14:127.
8. Altimus, C. M., Marlin, B. J., Charalambakis, N. E., Colón-Rodriguez, A., Glover, E. J., **Izbicki, P.**, ... & Obeso, I. (2020). The Next 50 Years of Neuroscience. *Journal of Neuroscience*, 40(1), 101-106.
9. Feye KM, Smith JS, Sebbag L, Hohman AE, Acharya S, et al. (2018) Veterinary Considerations for the Theoretical Resurrection of Extinct Species. *J Vet Sci Ani Husb* 6(3): 309.
10. Stegemöller, E. L., **Izbicki, P.**, & Hibbing, P. (2018). The influence of moving with music on motor cortical activity. *Neuroscience Letters*, 683, 27-32.
11. Schmidt-McCormack, G. R., Feye, K. M., Sreemoyee, A., Mlynarczyk, G.S., Anderson, S. J., **Izbicki, P.**, ... & Carlson S.A. (2017). Theoretical engineering of the gut microbiome for the purpose of creating superior soldiers. *Journal of Medical and Health Sciences*, 6, 2, 12-18.
12. Wolf, T., Webb, J., Swanson, A., McLimans K., Klinedinst, B., **Izbicki, P.**, Willette A. (2017). Quantitative secondary data analysis: utilizing observational studies for integrative neuroscience and interdisciplinary work. *SAGE Research Methods Cases*.

13. Anderson, S. J., Feye, K. M., Schmidt-McCormack, G. R., Malovic, E., Mlynarczyk, G. S., **Izbicki, P.**, ... & Luna, K. C. (2016). Off-target drug effects resulting in altered gene expression events with epigenetic and quasi-epigenetic origins. *Pharmacological Research*, 107, 229-233.

MANUSCRIPTS UNDER-REVIEW

1. **Izbicki P.**, Colon-Rodriguez, A., Mas-Herrero, E., Zatorre, R. (UNDER REVIEW) Altering Your Love of Music Using Brain Stimulation. *Frontiers for Young Minds*.
2. Zaman, A., Jewell, C., **Izbicki P.**, Stegemöller, E. (UNDER REVIEW) The Effects of a Socially Evaluated Cold Press Stressor on Inhibitory Gating in Persons with Parkinson's Disease. *Frontiers in Human Neuroscience*.
3. Gonyou T., **Izbicki P.**, Eubanks J., Qureshi F., Boudouris W., Belkin M., Rossman S. (UNDER REVIEW) Proteomic Biomarker Panel for Gauging Multiple Sclerosis Disease Activity: A Case Series from Real-World Use. *International Journal of Multiple Sclerosis Care*.

MANUSCRIPTS IN PREPARATION

1. **Izbicki P.**, Mennecke, J., & Stegemöller, E. (IN PREPARATION) Crystallized and Fluid Intelligence in Aging Musicians. *Psychology of Aesthetics, Creativity, and the Arts*.
2. **Izbicki P.**, Elkin., C, Mendoza, T., Mennecke J., Rumel, K., & Stegemöller, E. (IN PREPARATION) Differences in Cognitive Inhibition in Aging Musicians and Non-Musicians.
3. **Izbicki P.**, Mendoza, T., Zaman A., & Stegemöller, E. (IN PREPARATION) Differences in Motor Cortical Activity During Finger Syncopation and Synchronization in Young and Older Musicians and Non-Musicians.
4. **Izbicki P.**, Elkin., C, Mendoza, T., Mennecke J., Rumel, K., Zaman A., & Stegemöller, E. (IN PREPARATION) Association between Motor Inhibition and Cognitive Inhibition in Musicians Across the Lifespan.

CONFERENCE PROCEEDINGS AND OTHER PUBLICATIONS

1. **Izbicki, P.** (2020) Music Education has Beneficial Effects on the Aging Brain. *BrainFacts*.
2. **Izbicki, P.** (2020) Five Reasons Why Your Brain Will Thank You for Being a Musician. *Scientific American*.
3. **Izbicki, P.** (2020) Combining Humanities and Neuroscience in Grad School. *Neuronline*.
4. **Izbicki, P.** (2019) How Music Can Help People with Alzheimer's and Dementia. Johns Hopkins Medicine and Brain Science Institute. *International Arts + Minds Lab*.
5. **Izbicki, P.** (2018). Music and the Brain: A Discussion with Legendary Jazz Guitarist Pat Metheny at SfN. Johns Hopkins Medicine and Brain Science Institute. *International Arts + Minds Lab*.
6. **Izbicki, P.** (2016). #SfN16 Preview: Artful Strokes + Soulful Sounds = Healthier Brains? PLOS Neuro Community Blog.
7. **Izbicki, P.** (2013). Robert Schumann's Illness and Its Effect on His Music. *Proceedings of the 2013 Hawaii University International Conference: Arts, Humanities, and Social Sciences*. ISSN 2162-917X.

REVIEW BOARD RESPONSIBILITIES

Oxford University Press – *Journal of Gerontology: Biological Science* – Reviewer
BioMed Central – *Biomedical Engineering Online* – Reviewer
American Psychology Association – *Psychology of Aesthetics, Creativity, and the Arts* – Reviewer
Elsevier – *Complimentary Therapies in Medicine* – Reviewer
Wiley & Sons – *Movement Disorders* – Reviewer
Springer – *Experimental Brain Research* – Reviewer
Elsevier – *Experimental Gerontology* – Reviewer
Oxford Journals - *Journal of Music Therapy* – Reviewer

PRESS RELEASES

- 2024 NeuroArts Symposium at the Kravis Center Explores How Art Can Transform Brain Function. Lifestyle Media. February 19, 2024.
- NeuroArts Symposium 'Rhythms for the Brain' Coming to Kravis Center in March. PBC Voice, January 16, 2024.
- Kravis Hosts 'Rhythms for the Brain. North Palm Beach Life. March 7, 2024.
- "Rhythms for the Brain": An Interactive Symposium. South Florida Hospital News. March 6, 2024.
- 2023 M3F Foundation Partners with FAU Jupiter to Support Those with Neurodegenerative Disorders. Florida Atlantic University Press. June 27, 2023.
- Experts on Neurodegenerative Diseases Bring a Wealth of Knowledge to the Team. Palm Beach Society. Summer 2023.
- Mind, Music, Movement Foundation Adds to Board. Florida Weekly Palm Beach Edition. June 15, 2023.
- 2021 Connection Fall 2021 Alumni Spotlight. University of West Florida. September 10, 2021.
- STEM Job Talk. University of California San Diego. May 11, 2021.
- 2020 Meet the Argo with Music on the Brain. University of West Florida. July 20, 2020.
- 1 Million Women in Stem: A Global Campaign. 1MWIS. July 3, 2020.
- Student Highlights: Dr. Patricia Izbicki. Synapse. Iowa State University. June 4, 2020.
- 2019 Students Travel to Sweden to Study Global Leadership and Gender. Iowa State University. Carrie Chapman Catt Center for Women and Politics. July 16, 2019.
- Music and Science: UWF Music Alumna Pursues PhD in Neuroscience. University of West Florida Department of Music. Jan. 8, 2019.
- 2018 If You Get Involved in Science Advocacy, Here's the Impact You Can Make. Society for Neuroscience. June 8, 2018.
- 2017 ISU Graduate Student Is An Iowa Women of Innovation Award Winner. Iowa Public Radio. Nov. 15, 2017.
- 'In Tune' with the Community. National Recreation and Park Association Magazine. Aug. 1, 2017.
- Pianos in the Park. Ames Channel 12. June 23, 2017.
- 2016 Talented and Gifted Students Learning About Music, the Brain, and Creativity Are Part of the Public Piano Project at Iowa State University. Iowa State University College of Design. June 24, 2016.
- 2015 Alumni Spotlight. University of West Florida Kugelman Honors Program. Sept. 1, 2015.

PRESENTATIONS

- 2024 *Rhythms for the Brain – A NeuroArts Symposium*
Kravis Center for the Performing Arts
- Singing and the Brain – A Harmonious Connection*
Voice Study Centre - The University of Wales Trinity Saint David
- 2023 *Science of Singing*
Palm Health Foundation & Cox Science Center

- 2022 *Neuroscience Alumni Panel*
Iowa State University
- The Neuroscience of Music: A Tale of Many Brains*
Giving Voice Initiative National Gathering
- Meet the Scientist, Professional Development Panel*
Society for the Study of Ingestive Behavior International Meeting
- 2021 *Tickling the Ivories – The “Fountain of Youth” for Our Brain?*
Ryerson University
- Music and the Brain – Your Magical, Musical Brain*
Skype a Scientist - Excel Academy Science Fair
- Music Therapy & Brain Health*
Miami-Dade Library and *All of Us* Research Program at the University of Miami
- 2020 *The Latest and Greatest in Music and Neuroscience Research*
American Music Therapy Association National Conference
- What’s Music (Training) Got to Do with It?*
University of North Carolina Chapel Hill
University of California Davis
- State of the Field in Pharmaceuticals for Parkinson’s Disease*
Parkinson’s Disease Research Forum
- Music Training – The Fountain of Youth?*
TEDx Iowa State University
- 2019 *Music Training – The Fountain of Youth?*
Iowa State University Graduate College 3MT: Three Minute Thesis
- Stop...Inhibition Time! Cognitive and Motor Inhibition in Musicians Across the Lifespan*
Music Teachers of Central Iowa
- Singing as Exercise for Parkinson’s*
Iowa Parkinson’s Disease Conference (American Parkinson’s Disease Association Iowa Chapter)
- STEM Story Talk at the Girls in Science Festival*
Science Center of Iowa
- How Your Brain Learns*
LD ST 270 Campus Leadership Development
- 2018 *Neuroscience of Music Education*
Iowa State University Honors Program
- She Talks: Women Who Create*
Iowa State University Pappajohn Center for Entrepreneurship
- The Neuroscience of Music and Its Neuroeducational and Clinical Implications*
Des Moines Music Teachers Association
- 2016 *Making Music in the Classroom and Clinic*
Science Center of Iowa
- Neuroscience in Music Education*
Iowa State University, MUS 366 Music Education
- The Neurophysiology of Music*

INTERNATIONAL/NATIONAL CONFERENCES (*Undergraduates mentored italicized.*)

1. Kreiger S., **Izbicki P.**, Leyden K., Bajus L., Peterson D., Schrier M., Ding E., Keshavan V., Hoyt T., Foley J. *Novel Visualization of the Topographical Model of Multiple Sclerosis Using 3D Rendering of Quantified MRI*. Poster presented at the American Academy of Neurology, Denver, CO. April 2024.
2. Shabi T., Hanusch P., **Izbicki P.**, Sanchez A., Siniscalchi D., Jalaaliddini K., Power D., Hua H., Angel R., Miner E., Leyden K.J., Bajus L., Qureshi F., Kinkel R.P., Graves J. *Improving Patient Outcomes Through a Comprehensive Care Platform in MOVING-MS – A Case Study*. Poster presented at the Americas Committee for Treatment and Research in Multiple Sclerosis (ACTRIMS), West Palm Beach, FL. February 2024.
3. **Izbicki P.**, Kilgo W., Padarti A., Eubanks, J., Sanchez A., Qureshi F. *Real-World Utilization of a Proteomic Biomarker Panel for Assessing Multiple Sclerosis Disease Activity in an Academic Multiple Sclerosis Clinic with a Diverse Patient Population*. Poster presented at the Americas Committee for Treatment and Research in Multiple Sclerosis (ACTRIMS), West Palm Beach, FL. February 2024.
4. Kilgo W., Padarti A., **Izbicki P.**, Eubanks, J., Sanchez A., Qureshi F. *Real-World Utilization of a Proteomic Biomarker Panel for Assessing Multiple Sclerosis Disease Activity in an Academic Multiple Sclerosis Clinic with a Diverse Patient Population*. Poster presented at the European Committee for Treatment and Research in Multiple Sclerosis (ECTRIMS), Milan, IT. October 2023.
5. Gonyou T., Eubanks J., **Izbicki P.**, Qureshi F., Boudouris W., Belkin M., Rossman S. *Proteomic Biomarker Panel for Gauging Multiple Sclerosis Disease Activity: A Case Series from Real-World Use*. Poster presented at the Congress of the Americas Committee for Treatment and Research in Multiple Sclerosis (ACTRIMS), San Diego, CA. February 2023.
6. **Izbicki P.**, *Elkin, C, Mendoza, T., Mennecke J., Rumel, K., Zaman, A.F. Stegemöller, E.L. Differences in cognitive and motor inhibition of aging musicians and non-musicians*. Poster presented at the Cognitive Neuroscience Society, Virtual. May 2020.
7. **Izbicki P.**, *Rumel, K., Stegemöller, E.L. Differences in cognitive inhibition of aging musicians and non-musicians*. Poster presented at the Society for Neuroscience, Chicago, IL. October 2019.
8. Stegemöller, E.L., **Izbicki P.**, Zaman, A.F. *Differences in motor inhibition of aging musicians and non-musicians*. Poster presented at the Society for Neuroscience, Chicago, IL. October 2019.
9. *Meyer A., Elkin C., Gettes E., Gustafson E., Norman M., Izbicki P., Stegemöller, E.L. The effect of music listening on cognitive inhibition*. Poster presented at the Society for Neuroscience, Chicago, IL. October 2019.
10. **Izbicki P.**, Stegemöller, E.L. *Behavioral differences in cognitive and motor inhibition of aging musicians and non-musicians*. Poster presented at the Society for Neuroscience, San Diego, CA. November 2018.
11. **Izbicki P.**, Anderson, S., Stegemöller, E.L. *Music training differentially modulates motor cortical activity in healthy young adults*. Poster presented at the Society for Neuroscience, Washington D.C. November 2017.
12. **Izbicki, P.**, Anderson, S., Stegemöller, E.L. *Listening to music differentially modulates motor cortical inhibition in healthy young adults with and without formal music training*. Poster presented at the Neuromusic, Boston, MA. June 2017.
13. **Izbicki, P.**, Anderson, S., Stegemöller, E.L. *Listening to music increase motor evoked potential amplitude in healthy young adults*. Poster presented at the Society for Neuroscience Annual Meeting, San Diego, CA. November 2016.
14. **Izbicki P.**, Hibbing P., Klinedinst B., Brinkman A., and Stegemöller E.L. *The influence of activating versus relaxing music on repetitive finger movement and associated motor cortical activity*. Poster presented at the International Conference on Music Cognition and Perception, San Francisco, CA. July 2016.
15. **Izbicki, P.** *Robert Schumann's Illness and Its Effect on His Music*. Lecture-recital presented at the Hawaii University International Conference, Honolulu, HI. January 2013.

REGIONAL CONFERENCES (*Undergraduates mentored italicized.*)

1. Larkin S., Pithan N., Dixon A., **Izbicki P.**, Stegemöller, E. *The Effects of Music Education on Auditory and Visual Pattern Recognition*. Poster presented at the Iowa State University Honors Symposium. May 2019.
2. Campbell C., Lutkenhaus A., Weldon S., **Izbicki P.**, Stegemöller, E. *The Effects of Music on Fine Motor Control*. Poster presented at the Iowa State University Honors Symposium. May 2019.
3. Rumel K., **Izbicki P.**, Zaman, A., Stegemöller, E. *Behavioral Differences in Cognitive Inhibition of Aging Musicians and Non-Musicians*. Poster presented at the Iowa State University Undergraduate Symposium, Ames, IA. April 2019.
4. Elkin C., Gettes E., Gustafson E., Mennecke J., Meyer A., Norman M., **Izbicki P.**, Stegemöller, E. *The Effects of Preferred Activating Music on Cognitive Inhibition*. Poster presented at the Iowa State University Undergraduate Symposium. April 2019.
5. **Izbicki P.**, Stegemöller, E.L. *Behavioral differences in cognitive and motor inhibition of aging musicians and non-musicians*. Poster presented at the Iowa State University Neuroscience Research Day, Ames, IA, September 2018.
6. Halbert J., Hansen J., Reelfs A., Stuhr J., Weron M., **Izbicki P.**, Stegemöller, E. *Effect of Preferred, Non-Preferred, and No Music on Balance During Yoga*. Poster presented at the Iowa State University Freshman Research Initiative Symposium, Ames, IA. April 2018.
7. Barton C., Bridges C., Maxwell A., Miller A., Trang B., **Izbicki P.**, Stegemöller, E. *The Effects of Dual-Tasking on Healthy Young Adults*. Poster presented at the Iowa State University Freshman Research Initiative Symposium, Ames, IA. April 2018.
8. Latimer N., Shukla C., Leigh G., **Izbicki P.**, Stegemöller, E. *The Effects of Classical, Non-Preferred, and Preferred Music on Motor Learning*. Poster presented at the Iowa State University Freshman Research Initiative Symposium, Ames, IA. April 2018.
9. Gettes, E., Mennecke, J., Meyer, A., Norman, M., **Izbicki, P.**, Stegemöller, E. *The Effects of Preferred and Non-Preferred Music on Stroop Task Performance in Healthy Young Adults*. Poster presented at Iowa State University Undergraduate Symposium, Ames, IA. April 2018.
10. Berg., A., Gustafson E., Elkin, C., Wright G., **Izbicki P.**, Stegemöller, E. *The Effect of Music Played Before and During Stroop Task on Cognitive Inhibition*. Poster presented at Iowa State University Undergraduate Symposium, Ames, IA. April 2018.
11. Rumel, K., Sharp K., **Izbicki, P.**, Stegemöller, E. *The Influence of Tone Rates on Auditory Cortical Activity in Young Healthy Adults*. Poster presented at Iowa State University Undergraduate Symposium, Ames, IA. April 2018.
12. Lohmann, N., Berg, A., Ebeling, L., **Izbicki, P.**, Stegemöller, E. *The Effects of Preferred Music on Digit Span Task in Healthy Young Adults*. Poster presented at the Iowa State University Freshman Research Initiative Symposium, Ames, IA. April 2017.
13. Elkin, C., Gustafson. E., Mennecke, J., **Izbicki, P.**, Stegemöller, E. *The Effects of Non-Preferred Music on Gait in Healthy Young Adults*. Poster presented at the Iowa State University Freshman Research Initiative Symposium, Ames, IA. April 2017.
14. Meyer, A., Wright G., **Izbicki P.**, Stegemöller, E. *The Effect of Preferred Music on Stroop Task Performance*. Poster presented at the Iowa State University Freshman Research Initiative Symposium, Ames, IA. April 2017.
15. Williams, B., **Izbicki P.**, Stegemöller, E. *The Influence of Activating and Relaxing Music on Motor Cortical Activity Post Transcranial Magnetic Stimulation in Healthy Young Adults*. Poster presented at the Iowa State University Honors Symposium, Ames, IA. April 2017.
16. Lair, R., Young, L., Lambert, Z., Zayas, E., Zaman, A., **Izbicki, P.**, Stegemöller, E. *The Influence of Activating Versus Relaxing Music on Repetitive Finger Movement and Associated Motor Cortical Activity*. Poster presented at the Iowa State University Undergraduate Symposium, Ames, IA. April 2017.
17. Woods, G., **Izbicki, P.**, Hibbing, P., Stegemöller, E. *The Influence of Activating Versus Relaxing Music on Repetitive Finger Movement and Associated Motor Cortical Activity*. Poster presented at the Howard Hughes Medical Institute Symposium, Ames, IA. August 2016.

TEACHING EXPERIENCE

UNIVERSITY

2016 – 2021

Professional Development in Psychology, University of West Florida – Pensacola, FL

Virtually instructed 80+ undergraduate students online (asynchronous) on the overview of the discipline of psychology, including expectations for the psychology major, career options for students completing a bachelor's degree in psychology, and career options for students who pursue a graduate degree in psychology.

Instructed basic skills required for research, proposal development, writing in APA style, online presence and networking, resume building for post-graduate employment, and graduate school admissions. Developed the course to meet high impact practice and high quality standards per the Florida Board of Education. Average instructor evaluation: Excellent (83%)

Physical Fitness & Conditioning, Iowa State University – Ames, IA

Instructed and mentored twenty undergraduate students on introductory concepts and assessments of health components of fitness: cardiorespiratory, muscular strength and endurance, flexibility, and body composition. Also taught on developing exercise prescriptions and laboratory reports.

Average instructor evaluation: 4.73/5

Campus Leadership Development, Iowa State University – Ames, IA & Stockholm, Sweden

Co-developed and co-led 20 undergraduate students in a course in Stockholm, Sweden. Course was designed to examine the complex problems that require adaptive leadership in context and produce innovations aimed at addressing them sustainably.

Instructed emerging undergraduate student leaders on effective leadership practices and information on engagement opportunities and resources on campus. Evaluated students on understanding using social change model of leadership and a semester long service-learning project with a community organization.

Tennis & Racquetball, Iowa State University - Ames, IA

Introduction to basic skills (forehand, backhand, service) and basic knowledge of game play. USPTA Certified Level 3 in 2012. Average instructor evaluation: 4.91/5

Fundamentals of Human Anatomy Lab, Iowa State University - Ames, IA

Instructed and mentored twenty to fifty undergraduate students on basic human anatomy principles and lab dissections. Evaluated student performance via lab reports, practical examinations, and presentations.

Average instructor evaluation: 4.87/5

Freshman Research Initiative: *Dancing for Parkinson's*, Iowa State University - Ames, IA

Instructed and mentored ten freshman undergraduate students on neurophysiology lab techniques, primary literature analysis, experimental design, human subjects research ethics, data collection, and symposium presentation.

Principles of Biology I & II, Iowa State University - Ames, IA

Lectured, instructed, and mentored twenty to fifty undergraduate students on basic biology lab principles, techniques, and dissections. Evaluated student performance via lab reports, practical examinations, presentations. Average instructor evaluation: 4/5

OPPTAG Summer Course: *Neuroscience of Music*, Iowa State University - Ames, IA

Designed, implemented, and instructed a one-week summer STEAM course for primary education students (grades 5-8) focusing on neuroscience of music with a creative component of community piano placement and concert.

OTHER

2011 – 2019

University of West Florida Music Academy, Piano Week Faculty, & Izbicki Piano Studio – Pensacola, FL & Ames IA

Instructed 30+ students with focus on injury prevention piano technique, music theory, and musicianship. Organized biannual studio recitals and entered/placed students in local and state festivals and competitions.

HIGHLIGHTED PERFORMANCE EXPERIENCE (PIANO/HARPSICHORD)

2010 - 2023 **Soloist**, Science Meets Music, Max Planck Florida Institute for Neuroscience
Soloist, Music for Us All Virtual Concert
Soloist, *All of Us* Research Program, National Institutes of Health
Associate Director of Music, First Baptist Church of Ames
Soloist at Harpsichord Extravaganza, Pensacola State College and University of West Florida
Soloist at Society for Neuroscience Annual Meeting Music Social
Accompanist at Iowa Chapter of American Parkinson Disease Association Parkinson's Singing Festival
Soloist at CHOP Festival, Iowa State University
Soloist on KHOI Community Radio 89.1 FM *All Things Piano*
Soloist at 21st International Festival of Women Composers, Iowa State University
Accompanist, Iowa State University
Soloist, Choral Society of Pensacola, Pensacola Museum of Art
Soloist, All Steinway School Piano Celebration, University of West Florida
Accompanist & Soloist, Runge String Orchestra, University of West Florida
Accompanist & Soloist, Jazz Band, University of West Florida
Accompanist, Cokesbury Methodist Church, Pensacola, FL
Collegiate Honorable Mention, Pensacola Music Teachers Association Concerto Competition
Collegiate Winner, Pensacola Music Teachers Association Sonata Contest
Collegiate Honorable Mention, Pensacola Music Teachers Association Sonata Contest

HONORS/AWARDS

2016 - 2021 1 Million Women in STEM
University of West Florida Story of Impact
National Science Foundation Portal to the Public Science Communication Fellow
Business Record Forty Under 40 Nominee
K. Patricia Cross Future Leaders Award Nominee
Iowa State University Interdepartmental Neuroscience Program Travel Award
ComSciCon National Workshop Award
Iowa State University Helen Easter Graduate Scholarship
Iowa Women of Innovation: Collegian Innovation and Leadership Finalist and Winner
Iowa State University Fleming Award for Graduate Harpsichord/Organ Study
Wakonse Teaching Fellow
Iowa State University College of Human Sciences Graduate Scholarship
Society for Music Education and Music Psychology Travel Award
Iowa State University Focus Artist
Iowa State University Graduate and Professional Student Senate Professional Development Award
 *Graduate research and travel grants totaling \$7,000 at Iowa State University
 *Undergraduate research and travel grants totaling \$6,750 at University of West Florida
 *Academic and talent scholarships totaling \$30,000 at University of West Florida

PROFESSIONAL MEMEBRSHIPS

Medical Affairs Professional Society
Cognitive Neuroscience Society
Society for Neuroscience
Society for Music Perception and Cognition
Music Teachers National Association

PROFESSIONAL DEVELOPMENT

Center for the Integration of Research, Teaching, and Learning Associate
Iowa State University Preparing Future Faculty Fellow
Iowa State University Graduate College Emerging Leaders Academy Fellow

REFERENCES

Available upon request.