

SRIPATHI SRIDHAR

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EDUCATION

New Jersey Institute of Technology Newark, NJ PhD in Information Systems.	2021 - 2026 (<i>anticipated</i>)
New York University New York, NY Masters in Music Technology.	2017 - 2019
National Institute of Technology, Tiruchirappalli TN, India Bachelors in Electrical and Electronics Engineering.	2013 - 2017

EXPERIENCE

Mitsubishi Electric Research Labs (MERL) <i>Research Intern</i> Speech & Audio Group.	May 2025 - August 2025 <i>Cambridge, MA</i>
Adobe Research <i>Research Scientist/Engineer Intern</i> Sound Design AI Group.	September 2024 - May 2025 <i>San Francisco, CA</i>
New Jersey Institute of Technology <i>Research Assistant</i> Sound Interaction and Computing Lab, advised by Dr. Mark Cartwright.	August 2021 - Present <i>Newark, NJ</i>
Freelance Contributed to machine listening and networked music performance research projects, co-authored two publications. Audio Engineer and Video Editor for a music ensemble.	June 2020 - January 2021
GetNoisy LLC <i>Intern</i> Assisted with acoustic measurements and calibration of 100 custom Citygram MEMS microphones.	January 2020 - May 2020 <i>New York, NY</i>
New York University <i>Computer Technician</i> Provided technical support for software installations, license management, computer maintenance and troubleshooting for 50 computers used by students and faculty.	May 2019 - December 2019 <i>New York, NY</i>

SELECTED PUBLICATIONS

- Sridhar, S.**, Seetharaman, P., Nieto, O., Cartwright, M., & Salamon, J. (2026). Audiocards: Structured Metadata Improves Audio Language Models for Sound Design. In *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2026.
- May, L., Clemens, M., Dang, K., Ohshiro, K., **Sridhar, S.**, Wee, P., Fuentes, M., Lee, S., & Cartwright, M. (2025). “Choices? That’s the dream”: Challenges and opportunities in non-speech information closed-captioning. *Frontiers in Computer Science*, 7, Article 1575176.
- Sridhar, S.**, and Cartwright, M.. Compositional Audio Representation Learning. In *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2025.
- May, L., Ohshiro, K., Dang, K., **Sridhar, S.**, Pai, J., Fuentes, M., Lee, S., & Cartwright, M. . Unspoken Sound: Identifying Trends in Non-Speech Audio Captioning on YouTube. In *Proceedings of the CHI Conference on Human Factors in Computing Systems*, 2024.

5. **Sridhar, S.**, and Cartwright, M.. Multi-label Open-set Audio Classification. In *Workshop on Detection and Classification of Acoustic Scenes and Events (DCASE)*, 2023.
6. Lostanlen, V., **Sridhar, S.**, McFee, B., Farnsworth, A., & Bello, J. P. Learning the Helix Topology of Musical Pitch. In *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2020.
7. Hupke, R., Peissig, J., Genovese, A., **Sridhar, S.**, & Roginska, A. Impact of Source Panning on a Global Metronome in Rhythmic Networked Music Performance. In *27th Conference of Open Innovations Association (FRUCT)*, 2020.
8. Hupke, R., **Sridhar, S.**, Genovese, A., Nophut, M., Preihs, S., Beyer, T., Roginska, A., & Peissig, J. A Latency Measurement Method for Networked Music Performances. In *Audio Engineering Society Convention 147*, 2019. Engineering Brief.
9. Kim, S., & **Sridhar, S.**. Multichannel Audio Implementation for Virtual Reality. In *Audio Engineering Society International Conference on Immersive and Interactive Audio*, 2019. Engineering Brief.
10. Kim, S., & **Sridhar, S.**. Evaluation of Additional Virtual Sound Sources in a 9.1 Loudspeaker Configuration. In *Audio Engineering Society Convention 145*, 2018.
11. Kim, S., & **Sridhar, S.**. Stationary Music from Users' Viewpoint in VR Applications. In *Audio Engineering Society Convention 145*, 2018. Engineering Brief.

PRESENTATIONS

1. **Sridhar, S.**, & Lostanlen, V. Helicality: An Isomap-based Measure of Octave Equivalence in Audio Data. *International Society of Music Information Retrieval (ISMIR)*, Virtual. October 15, 2020. Late-breaking demo.

DATASETS

1. Morfi, V., Stowell, D., Lostanlen, V., Strandburg-Peshkin, A., Gill, L., Pamula, H., Benvent, D., Nolasco, I., Singh, S., **Sridhar, S.**, Duteil, M., Farnsworth, A. (2021). DCASE 2021 Task 5: Few-shot Bioacoustic Event Detection Development Set (2.0) [Data set]. Zenodo.

TEACHING

Instructor: <i>Python for Web API Development</i>	September 2025 - December 2025
Delivered lectures, held office hours, and graded assignments for 6 students.	
TA: <i>Machine Listening, Advanced Information Systems, and Computer Graphics for Visual Effects</i>	September 2022 - Present
Implemented programming assignments, held office hours, conducted hands-on labs, and graded assignments.	
Tutor: <i>Python, Digital Signal Theory, and 3D Audio</i>	January 2019 - December 2019
Graded assignments and held office hours for 60 students across two semesters.	

HONORS AND AWARDS

Best Student Paper Award	October 2020
<i>FRUCT 2020 1st International Workshop on the Internet of Sounds.</i>	
Recognition of Academic Excellence	May 2019
<i>New York University Music Technology graduate program.</i>	

SKILLS

Programming Languages	<i>Expert:</i> Python, <i>Previous experience:</i> C, MATLAB, Max/MSP
Machine Learning	PyTorch, Numpy, Keras, Tensorflow, Scikit-learn
Software	Reaper, Unity, Adobe Audition, Premiere Pro, After Effects

SERVICE

Vice President Finance, NJIT PhD Club

July 2023 - July 2024

Drafted and presented budget proposals, and managed club finances.

Curated and organized club events in collaboration with other board members.

Reviewer, ICASSP 2025-2026, ISMIR 2025, WASPAA 2025

October 2024 - present

Volunteer, DCASE Workshop, AES Convention

2018 - 2019

EXTRA-CURRICULARS

New York University Immersive Audio Group

2017 - 2019

Co-Lead: Led a group of 10 students in weekly meetings and coordinated ongoing projects.

Member: Spatial audio projects involving ambisonic urban sounds capture, programming virtual reality experiences, and 360° video broadcast.

Performing Musician

2008 - present

Vocalist and drummer in various ensembles and Indian classical music productions.

Lead Singer, Waterlemons

2014 - 2016

Won multiple collegiate band competitions and professionally recorded two singles.