

Matthew Lee

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EDUCATION

Riverdale Country School

GPA: 4.0 (A)

Columbia University - Freshman

GPA: 4.0 (A)

Bronx, NY

9-12th Grades

Manhattan, NY

B.A. Computer Science

INTERNSHIPS

Lisman Laboratories – Riverdale Country School

Bronx, NY

Researcher (2023) & Paid Intern (2024)

June-July 2023 & 2024

- Conducted differential gene expression analysis on neuron morphological and transcriptomic data from the Allen Institute to uncover developmental patterns in neurological disorders

EXTRACURRICULAR ACTIVITIES

sustAIn, Inc. | Founder & Board Director

2024-2025

- Founded non-profit to elevate student voices in AI ethics discussions in education and society
- Organized a guest speaker panel with Columbia professors Shipra Agrawal and Asaf Cidon

Deep Learning for Music Information Retrieval | Researcher & Participant

2024-2025

- Worked with professors at Stanford's Center for Computer Research in Music & Acoustics (CCRMA), to train ML models that transfer singing genres/styles

HeyBusking | Founder, President, Performer

2020-2025

- Built platform connecting musicians to local venues, organized 50+ performances raising \$3,000+ for NGOs

Columbia Science Honors Program | Student

2023-2024

- Engaged in courses on relativity, quantum physics, and biotechnology

PUBLICATIONS

International Society for Music Information Retrieval (ISMIR)

October 2024

Title: Generative Singing Style Transfer Across Genres

Fields: Artificial Intelligence, Music Information Retrieval, Voice Style Transfer

DOI: https://ismir2024program.ismir.net/lbd_470.html

Journal of Student Research

November 2023

Title: Supervised Fusion Music Composition Through Long Short-Term Memory Stochastic Modeling

Fields: Artificial Intelligence, AI Fusion Music Generation, LSTM networks, RNNs

DOI: <https://doi.org/10.47611/jsrhs.v12i4.5919>

AWARDS & HONORS

National Merit Scholarship Finalist

February 2024

1st Place – Marvin Hamlisch International Music Awards (Film/Media Scoring)

November 2024

Scholastic Art & Writing Awards

2023-24

Gold Key: Personal Essay, Critical Essay, Flash Fiction

3rd Place, John Sexton Scholar – [John Sexton History Essay Contest](#)

July 2023

SKILLS

CODING LANGUAGES: Python (fluent), Java (fluent), C# (fluent), HTML (basic), CSS (basic)

PROGRAMMING PROFICIENCY: Machine Learning using PyTorch and SciPy Python libraries; Statistical Analysis using Python Panda Library; Audio Signal Processing; Deep Learning for Music Informational Retrieval; Game Development in Unity

MUSIC SOFTWARE: Logic Pro X; Sibelius

LANGUAGES: English (native), Korean (working proficiency), Chinese (basic)