# JULA WILKINS www.linkedin.com/in/juliawilkins1 www.github.com/jlw365

#### Awards

## ISMIR 2016 ThinkTank Workshop Scholarship Recipient

August 2016

Selected to attend sponsored ThinkTank industry preparation workshop at the International Society of Music Information Retrieval (ISMIR) Conference 2016 (New York, NY).

## Women in Computer Music Scholarship, Stanford University

June 2015

Awarded full scholarship to attend weeklong intensive workshop at Stanford's Center for Computer Research in Music and Acoustics (CCRMA). Worked in SuperCollider to design a text-to-sound conversion program.

#### **Publications**

**Wilkins, J.**, Bittner, R., Yip, H., Bello, J. *MedleyDB 2.0:* New Data and a System for Sustainable Data Collection. *Late Breaking Demo of ISMIR* 2016.

#### Technical Skills

*Most Confident:* Python (NumPy, Pandas, Keras, Matplotlib, Scikit-Learn)

Familiar: C++, HTML, Java, SQL, C, CSS

Technologies: Git, Bash

*Music Technologies:* Max/MSP, Supercollider, Ableton Live, Maximilian, openFrameworks

#### Extracurriculars

## Women in Music Information Retrieval

October 2016-present

Undergraduate Ambassador responsible for promoting the involvement of women in the international MIR community.

### Northwestern Ultimate Frisbee September 2015-present

Active team member and flyer, disc, gear, and newsletter graphic designer and coordinator.

#### Summary\_\_\_\_\_

Motivated and passionate learner offering a strong background in audiorelated software engineering and research. Current interests lie in machine learning and music information retrieval.

#### Education

Northwestern University | Evanston, IL | 2014-June 2018 Graduating senior studying Computer Science and Music Technology.

Relevant courses: Machine Learning (in progress), Intro to Artificial Intelligence, Intro to Databases, Data Structures, Discrete Mathematics, Machine Perception of Music, Human-Computer Interaction, Multichannel Sound, Intro to Computer Graphics.

#### Goldsmiths, University of London | London, UK | 2016

Study abroad experience focused on the opportunity to take unique courses including Audio-Visual Processing and Music Computing.

#### Work Experience

#### Sunhouse, Inc.

**Software & Research Intern | New York, NY |** *June-Aug. 2017* Developed the research foundation of new software features for Sensory Percussion software using machine learning and audio feature extraction.

## Interactive Audio Lab, Northwestern University Undergraduate Researcher | Evanston, IL | Jan. 2017-present

Working under the supervision of Bryan Pardo on a variety of music-information retrieval and audio-based machine/deep learning projects.

## Music and Audio Research Lab, New York University Research Assistant | New York, NY | *June-Aug. 2016*

Developed a Python application to error-proof multitrack audio files collected for the MedleyDB dataset.

#### Listen

#### Intern | New York, NY | June-August 2016

Shadowed internal projects and worked through an independent audio branding R&D project under the supervision of the founding partners.

#### Project Highlights\_\_\_\_\_

#### VocalSet

#### March 2017-present

Curated and collected a large dataset of professional vocal samples to create a vocal technique classifier using Python and neural networks.

#### HarmonizeMe

#### December 2016-March 2017

Created a Python application that harmonizes a user's melodic vocal input based on chord selection. Additionally, developed a prototype of an educational iOS version of the automatic harmonization.