

# HUW WILLIAM CHESTON

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🌐 <https://www.github.com/huwcheston>

## EDUCATION

**Ph.D., Music**, Centre for Music & Science, University of Cambridge *expect.* October, 2024  
**Thesis:** New Methods in Quantitative Analysis and Modeling of Musical Improvisation  
*Supervisor:* Peter Harrison & Ian Cross

**MSt., Music**, Linacre College, University of Oxford (*Distinction*) October, 2020  
**Dissertation:** Time, Temporality, and Expression in Unaccompanied Improvisation  
Final average of 85%, *graduated with the highest mark in the year*

**BA., Music**, Christ Church, University of Oxford (*First Class*) June, 2019  
Final average of 76%, *graduated with the highest mark in the year*

## SELECTED PUBLICATIONS

**Cheston, H.**, Cross, I., & Harrison, P. M. C. (2024, in press). Trade-offs in Coordination Strategies for Duet Jazz Performances Subject to Network Delay and Jitter. *Music Perception*.

**Cheston, H.**, Schlichting, J. S., Cross, I., & Harrison, P. M. C. (2024). Rhythmic Qualities of Jazz Improvisation Predict Performer Identity and Style in Source-Separated Audio Recordings. *PsyArXiv*. [DOI: [10.31234/osf.io/txy2f](https://doi.org/10.31234/osf.io/txy2f)]

**Cheston, H.**, Schlichting, J. S., Cross, I., & Harrison, P. M. C. (2024). Cambridge Jazz Trio Database: Automated Timing Annotation of Jazz Piano Trio Recordings Processed Using Audio Source Separation. *PsyArXiv*. [DOI: [10.31234/osf.io/jyqp3](https://doi.org/10.31234/osf.io/jyqp3)]

## SELECTED AWARDS AND PRIZES

**Project Incubation Award** (£ 2000), Cambridge Digital Humanities May, 2022  
Awarded for development and testing of *Audio-Visual Manipulator* software [[Project page](#)]

**Vice-Chancellor's Award** (£ 75,000), Cambridge Trust September, 2021  
Full scholarship (fees & stipend) for Ph.D study

**Musicology Prize** (£ 100), Faculty of Music, University of Oxford October, 2020  
Awarded for highest average mark in 2020 MSt. cohort

**Louis Curran Scholarship** (£ 25,000), Linacre College, University of Oxford August, 2019  
Full scholarship (fees & stipend) for MSt. study

**Gibbs Prize in Music** (£ 500), Faculty of Music, University of Oxford June, 2019  
Awarded for highest average mark in 2019 BA. cohort

**Academic Scholarship** (£ 300 x2), Christ Church, University of Oxford

2017; 2018

## TEACHING

**Music & Science Module Leader**, Cambridge Summer School, Sutton Trust      August 2023  
Delivered workshop on audio signal analysis for summer school participants (A-Level equivalent)

**Supervisor & Guest Lecturer** , Faculty of Music, University of Cambridge      January 2022 –

- Delivered small-group supervisions for Undergraduate students on: (i) analysing audio recordings, (ii) introduction to programming in Python and R, (iii) visualising and simulating data.
- Delivered yearly lecture on analysing audio recordings for Undergraduate *Music & Science* course, involving introduction and demonstration of Music Information Retrieval concepts.
- Co-supervised final-year Undergraduate dissertation project, involving automated harmonic analysis of jazz piano recordings in Cambridge Jazz Trio Database (*see above*).
- Supervised first-year Undergraduate extended essay projects on jazz history and theory.

**Graduate Music Assistant**, Kingswood School, Bath, UK      September 2020 – June 2021  
Duties involved: (i) teaching music theory & composition classes; (ii) managing school's recording studio; (iii) delivering extra-curricular music performance and audio production classes.

## EXPERIENCE

**Professional Musician & Sound Technician** [[Showreel link](#)]      September 2016 –

**Administrator**, WallpaperJazz [[Website link](#)]      June 2016 –  
Online blog hosting transcriptions of jazz improvisations, averaging 1000+ monthly views.

## TECHNICAL SKILLS

### Programming

- Python 🐍 (NumPy, Pandas, Matplotlib, Plotly, Scikit-learn, SciPy, Statsmodels, Librosa)
- R (ggplot2, lme4, tidyverse)
- **git**, L<sup>A</sup>T<sub>E</sub>X, Jupyter, PyCharm, RStudio, Docker, HTML, CSS, JavaScript (jQuery, Plotly)

### Statistics

- Generating and working with large audio data sets
- Time series analysis and modelling
- Data visualisation, including interactive plots and animations [[Example 1](#)] [[Example 2](#)]

## REFERENCES AVAILABLE ON REQUEST