HUW WILLIAM CHESTON

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EDUCATION

Ph.D., Music Data Science   *expected* September, 2024
Centre for Music & Science, University of Cambridge, UK

> **Thesis:** Modeling Improvised Musical Interaction *(preliminary title)*
> *Supervisor:* Peter Harrison & Ian Cross
> Demonstrated how tools from machine learning and data science
> can inform research on stylometry and musical improvisation

MSt., Music, *Distinction*   October, 2020
Linacre College, University of Oxford, UK

> **Dissertation:** Making Music Alone: Time, Temporality, and Expression in Unaccompanied
> Jazz Improvisation
> *Supervisor:* Eric Clarke
> Final mark of 85%, *graduated with the highest mark in the year*

BA., Music, *First Class*   June, 2019
Christ Church, University of Oxford, UK

> Final mark of 76%, *graduated with the highest mark in the year*

TECHNICAL SKILLS

Programming

- Python 🐍 (NumPy, Pandas, Matplotlib, Seaborn, Plotly, Scikit-learn, SciPy, Statsmodels, OpenCV, Jinja, Librosa)
- JavaScript (JQuery, DataTable, Plotly)
- R (ggplot2, lme4, tidyverse)
- Misc.: **git**, LaTeX, Jupyter, Colab, PyCharm, RStudio, Docker, DataSpell, Stata, HTML, CSS

Statistics

- Working with large data sets
- Working with time-series data
- Data wrangling and cleaning
- Data visualisation, including interactive plots

AWARDS AND PRIZES

Travel Award (*£ 200*)   August, 2023
 International Conference on Music Perception and Cognition
 Travel Grant to present a paper at *ICMPC17*, Tokyo, Japan

Small Research Grant (*£ 500*)   August, 2023
 Royal Musical Association
 Travel Grant to present a paper at *ICMPC17*

Travel Grant (*£ 1500*)   August, 2023
 Music & Letters Trust
 Travel Grant to present a paper at *ICMPC17*

Conference Paper Presentation Award (*£ 500*)   August, 2022
 Cambridge Digital Humanities
 Travel Grant to present a paper at *Conference on Interdisciplinary Musicology*, Edinburgh, UK

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

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

Lewis Research Scholarship in the Humanities   September, 2021
 Robinson College, University of Cambridge
 Joint award with above

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

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

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

Clifford Smith Prize (*£ 130*)   June, 2019
 Christ Church, University of Oxford
 Awarded on basis of continued academic excellence

Academic Scholarship (*£ 300* x2)   September, 2018; September, 2017

Christ Church, University of Oxford

Collections Prize (*£ 50* x2)   September, 2018; September, 2017
    Christ Church, University of Oxford
    Awarded for performance in formative examinations

PUBLICATIONS

Articles

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

Preprints

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*. [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*. [https://doi.org/10.31234/osf.io/jyqp3]

Conference Proceedings

Cheston, H., Cross, I., & Harrison, P. (2023). An automated pipeline for characterizing timing in jazz trios. Paper presented at the DMRN+18: Digital Music Research Network Workshop, Queen Mary University of London, UK. [Proceedings]

Cheston, H., Cross, I., & Harrison, P. (2023). Modelling coordination strategies in improvised musical performances by skilled jazz groups. Paper presented at the 16th International Conference of Students of Systematic Musicology (SysMus23), Sheffield University, UK. [Proceedings]

Cheston, H., Cross, I., & Harrison, P. (2023). Coordination strategies in networked jazz performances. Paper presented at the 17th International Conference on Music Perception and Cognition (ICMPC), Nihon University, Tokyo, Japan. [Proceedings]

Cheston, H., Cross, I., & Harrison, P. (2022). The effects of variable latency timings and jitter on networked musical performances. Poster presented at the 15th International Conference of Students of Systematic Musicology (SysMus22), University of Ghent, Belgium. [Proceedings]

Cheston, H., Cross, I., & Harrison, P. (2022). Measuring the effects of variable latency timings on networked jazz performances. Poster presented at the SEMPRE 50th Anniversary Conference, Senate House, University of London, UK. [Proceedings]

Cheston, H. (2022). "Turning the beat around": Time, temporality, and participation in the jazz solo break. Paper presented at the 13th Conference on Interdisciplinary Musicology: 'Participation', University of Edinburgh, UK. [Proceedings]

Other Publications

Cheston, H. (2022) Conference Review: Interdisciplinary Musicology 2022: 'Participation'. Royal Musical Association. [Conference review]

TEACHING

Guest Lecturer   Winter 2021 –
Faculty of Music, University of Cambridge
Delivered guest lecture for Undergraduate level *Introduction to Music Psychology* course

Supervisor   Spring 2022 –
Faculty of Music, University of Cambridge
Delivered supervisions at Undergraduate level on: *(i)* introduction to programming in Python and R; *(ii)* visualising and generating data in Python and R; *(iii)* writing research proposals; *(iv)* analysing musical performances empirically.

TRAINING

Social Sciences Research Methods Programme, University of Cambridge:
  – Time Series Analysis   Spring, 2022
  – Further Topics in Multivariate Analysis   Spring, 2022
  – Doing Multivariate Analysis   Winter, 2021
  – Basic Quantitative Analysis   Winter, 2021
  – Foundations in Applied Statistics   Winter, 2021

EXPERIENCE

Non-University Teaching

Graduate Music Teaching Assistant   September 2020 – June 2021
Kingswood School, Bath, UK

Interviewer   Summer 2019
Oxford Tutors, Oxford, UK

Private Music Tutor   Summer 2018
Remote, UK

Music

Freelance Musician   September 2016 – current
Professional work across the UK on Guitar, Bass Guitar. Clients include Blenheim Palace, United
Grand Lodge of England, Oxford Symphony Orchestra, TRUCK Festival

Sound Technician   September 2016 – current
Sound production, mixing, mastering for a variety of projects in both live and studio settings,
clients including ATMOSPHERE Opera Festival, Oxford Playhouse [Showreel link]

Administrator, WallpaperJazz [Website link]   June 2016 – current
Online blog hosting transcriptions of jazz improvisations, currently averaging 1000+ worldwide
views monthly across 75 countries.

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REFERENCES
Available on request

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