

ANASTASIYA KRYVANOS - RESEARCHER

RELEVANT SKILLS

- **Research skills:** worked with both quantitative methods (analysis of questionnaire data, MIDI data, motion capture data) and qualitative methods (interviewing and thematic analysis). Experienced in statistical data analysis as well as literature search and reviews.
- **Software and methods:** RStudio, Jamovi, Qualtrics, Microsoft office (including Excel) and Qualisys Track Manager.
- **Project management, organisational skills, administrative skills:** assisted with data collection and analysis in several projects; helped with designing the final research project (MSc), managing the project timeline, overcoming setbacks and making sure that all the deadlines are met.
- **Team and collaboration skills:** collaborated, both internally and externally, in an interdisciplinary research environment with researchers, music psychologists, musicologists, computer scientists and musicians.
- **Written and oral communication:** successfully wrote up an MSc thesis, multiple essays, literature reviews and reports on music perception and cognitive neuroscience of music topics following APA guidelines; contributed to the joint-authored paper and related dissemination; presented own research and findings in front of audiences consisting of students and professors from the Psychology department.

EDUCATION

MSc in Music, Mind, and Brain (September 2022 – September 2024) with Distinction

Goldsmiths, University of London

Modules and skills gained:

- **Music Perception:** covered various aspects of music perception, including psychoacoustics, timbre, tuning systems, auditory grouping, perception of tonality, harmony, rhythm and metre, computational theories of music cognition, cross-cultural research and amusia.
- **Foundations of Neuroscience:** gained knowledge of the neuroanatomy, brain structures, sensory and motor systems as well as modern cognitive neuroscience methods and techniques, such as EEG data collection and analysis, basis of single-cell recordings, brain stimulation, MEG and fMRI.
- **Cognitive Neuroscience of Music:** covered high level aspects of musical behaviour, including learning, memory, expectation, emotion, creativity and improvisation, from a cognitive neuroscience perspective. Focused on the relationship between expectation and emotion in music listening; the extent to which language and music are functionally related; the tools available to measure creative processes in musical performance; how music can be used in a clinical and rehabilitative setting.
- **Multivariate Statistical Methods:** gained proficiency in statistical analyses, including regression, ANOVA, path analysis, factor analysis and other, using R, Jamovi, and Excel.
- **Research Skills:** gained experience in writing lab reports on various topics on music perception and cognition, outlining existing literature findings, method design and data collection, applying

appropriate statistical analyses, discussing and providing a critical evaluation of the results. Identified relevant research questions and determined the best approaches to finding answers.

- **Research design and analysis:** covered and applied principles of quantitative and qualitative research design; presented a seminar on design and statistics as a principled argument; demonstrated an understanding of issues in statistical interpretation.

Additional training (January – March 2025)

RITMO (Centre for Interdisciplinary Studies in Rhythm, Time, and Motion, Norwegian Centre of Excellence), University of Oslo, Norway

- **Motion capture course:** movement analysis; anatomy and biomechanics; infrared motion capture; video-based analysis; accelerometry and muscle sensing; ethical and legal matters
- **Pupillometry course:** methods of pupillometry and eye tracking; eye anatomy and physiology; use of pupillometry in different disciplines
- **Music Moves course:** music-related body movement in perceivers and performers; groove and gestures; emotion and motion

RESEARCH AND WORK EXPERIENCE

Fellowship with the DigiScore Project, University of Nottingham (2025-2026)

Assisting with a study on musical interaction between an embodied AI robot and human participants

- conducting data analysis (developing the R code pipeline based on the expected data structure, including quality checks, visualisations and exploratory analyses of the robot and participants' physiological data)
- Refining the tools and sharing updates with the team; preparing publication-ready outputs and contributing to the joint-authored paper and any related dissemination.

Research Trainee, University of York (2026)

Assisting with a study on musical creativity and social relationships

- Design and implementation of longitudinal online surveys (Qualtrics)
- Coordination of participant communication, data management and anonymisation procedures

Internship at RITMO (Centre for Interdisciplinary Studies in Rhythm, Time, and Motion), University of Oslo, Norway (2025)

(Under supervision of Dr Laura Bishop)

Assisted with studies on music performance anxiety, musical togetherness and synchronisation in piano duet performance, the use of digital scores and motor control in piano playing.

- Explored data visualization and analysis options for the questionnaire data using R and Excel
- Conducted analysis of musical data (MIDI) in R: extracted musical features (tempo, dynamics, articulation, synchronisation), constructed visual representations and compared across performances
- Analysed motion capture data of hands in piano performance using QTM

- Assisted with recruitment, setting up and data collection in several studies involving motion capture, video recordings, Disklavier MIDI, EEG, questionnaires and interviews.

MSc Thesis Research (2024) - *Music Performance Anxiety in Former Military Musicians*

(Under supervision of Prof. Lauren Stewart and Dr. Maria Herrojo Ruiz)

Conducted the first research on music performance anxiety in musicians, who have previously served within the British Army. This involved mixed-method design incorporating quantitative data collection via online survey on Qualtrics and qualitative data collection via interviews.

- Conducted a literature review on music performance anxiety experimental hypotheses; followed appropriate ethical procedures (collating study information sheets, consent forms and debrief forms) to gain an approval from the ethical committee; designed a survey adapted for the population of military musicians based on previous research and analysed the survey data utilizing correlational methods using Jamovi; designed and conducted semi-structured interviews with volunteered participants and analysed the interview data using thematic analysis; presented findings in the MSc dissertation, during the department poster presentation and at SysMus25 conference.