

# AI for Music in the Creative Industries of China and the UK

Shanghai Workshop 15-17 April 2019  
AHRC funded AH/T001259/1

Participant Slides

[ai4music.eecs.qmul.ac.uk](mailto:ai4music.eecs.qmul.ac.uk)



# Dr Nick Bryan-Kinns

Queen Mary University of London

Director of Media and Arts Technology Centre

主管，英国工程与物理科学研究理事会+艺术与人文研究委员会 传媒艺术科技博士培训中心

Reader of Interaction Design

交互设计 教授

AI and Music Centre for Doctoral Training

*Interested in:*

How AI can be creative partner

*Hope to get:*

Understanding of similarities and differences between UK  
and Chinese landscapes

Opportunities for collaboration in AI and Music

# Team Members Introduction



Name

Yanqing CHEN  
陈燕青

Yishu MAO  
毛亦姝

Yixi CHEN  
陈奕希

Company

Xiami Music of Alibaba Group

Role

Senior Product Director

Algorithm Engineer

Senior Data Analyst

Interest and what  
hope to get from  
the workshop

- AI music composition
- Learn advanced tech and AI application of the music industry

- Auto music generation
- Current Research in using AI to generate music

- Business models for AI for music in music industry
- Impact of AI on music industry



# Brad Cohen

Founder & Director

Tido Music GmbH / Tido UK

- Tido is a music learning platform available on iOS and web.
- Our interest in AI for music centres on user interaction, feedback and monitoring.
- We already use ML and AI in our production processes.
- This week, I hope to understand the Chinese market better and to foster collaborations.

# George Fazekas - Senior Lecturer in Digital Media - QMUL

## Current research: [semanticaudio.net](http://semanticaudio.net)

- Music Informatics / Semantic Audio
- Signal Processing and Machine Learning for audio and music
- Music and Emotions
- Ontologies and Knowledge Representation

## Interests in AI for Music:

- Assistive AI for music composition and music/media production
- Workflow enhancement in media production using assistive tech.
- Music and Media Ontologies & Blockchain tech. for work attribution, IP protection, etc.
- Recommendation systems in cross-cultural contexts

## Workshop objectives:

- Understand the AI and Music research landscape in China
- Discuss collaboration opportunities with UK and Chinese partners
- Plan collaborative grant proposal(s)

# QI MENGJIE (MAGGIE) PH.D. CANDIDATE

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- ▶ Institution:
  - ▶ Electroacoustic music composition - Central Conservatory of Music
  - ▶ Computer music - City University of New York
- ▶ Research and compositions:
  - ▶ Interactive sound installation
  - ▶ Interactive music performance
  - ▶ Electroacoustic music composition
- ▶ Goal:
  - ▶ To explore the possibilities of combining AI and interactive music performance and composition

**Name:**

Oliver Kadel

**Company/institution:**

1.618 Digital / University of West London / Immersive Audio Podcast

[www.1618digital.com](http://www.1618digital.com)

**Role:**

1.618 Digital - Co-Founder / Audio Lead

University of West London - Module Tutor (Spatial Audio)

Immersive Audio Podcast - Exec Producer / Co-Presenter

**Your interest in AI for Music:**

Dynamic & Interactive Music

Procedural Audio

Physics Driven Synthesis

Realtime Acoustic Modeling

Situational Awareness/ Enhanced Functionality for immersive media

Biometric driven adaptive music

**What you hope to get out of the workshop:**

To meet other delegates working in this area and exchange the knowledge

To learn more about the most pressing challenges as well as the hottest opportunities within the industry, top 3 in each area.

To better understand current AI capabilities, near-future advancements and accessibility

Establish any potential crossover points between other sonic centric industries and verticals

Learn more about the AI for music landscape both in the UK and China

Explore deeper the current research trends in academia

Learn more about IP protection and monetisation

Learn more about how the use of AI can be democratised by simplifying an implementation method via general interface design

# Beici Liang / 梁贝茨

- PhD Candidate
- [beici.liang@qmul.ac.uk](mailto:beici.liang@qmul.ac.uk)
- <https://beiciliang.weebly.com/>

centre for digital music



MEDIA & ARTS  
TECHNOLOGY

I use deep learning to boost the performance in music information retrieval tasks, such as piano pedalling techniques detection.

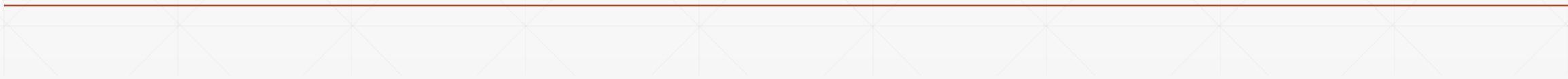
I would like help industries and academics of China and the UK to establish further collaboration using my background in both sides.



# About Me

- I am - Xiao Lu
- I work for - QQ Music under TME
- I work as - Audio Algorithm Engineer
  
- My interests in "AI for Music" lie in the followings:
  1. Music interaction with AI;
  2. AI music for specific scenes (e.g. meditation, sleeping, sporting, etc.);
  3. State-of-the-art algorithms and useful techniques for building an AI music system

In general, I look forward to learning state-of-the-art techniques and hearing music generated from the latest researches.



# **Zijin Li**

China Conservatory of Music, Associate Professor

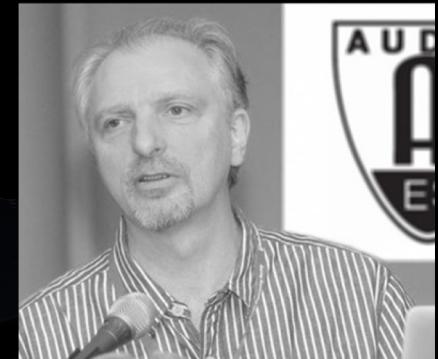
Interest:

**music information / Ai Music application/ new musical instrument design**

What you hope to get out of the workshop:

**Want to know the directions of AI4music/ connection with each other**

# Professor Justin Paterson



**Associate Professor of Music Technology**

London College of Music,  
University of West London, London, UK

**Principal Investigator:**

- AHRC-funded 'Commercialisation of Interactive Music'
- InnovateUK-funded 'Haptic Authoring Pipeline for the Production of Immersive Experiences' (HAPPIE)

**Interests:**

Music production  
Interactive music  
3-D audio

**AI-specific interests:**  
Applications in the above

**Workshop outcomes:**  
To find collaboration opportunities for funded projects

# JOHAN PAUWELS

- Postdoctoral Researcher at QMUL
- Working on high-level music content analysis from audio
  - keys, chords, structure, instruments, etc.
- Interested in real-world use-cases
  - user-centric, application-driven research
  - large catalogue analysis, with labelled data or unlabelled
  - audio analysis as a (web)service
- Looking for collaborations, new applications, industry-driven research questions and data

# Sunny Sun

Sunny Touch Studio/ Founder(上海链娱文化)

Brainforce China GM

Cross border , Cross culture and transborder services

UK London Southbank university Ms Finance from 2002—2004

US Sandford GSB EMBA 2016 and Shanghai alumni board member

Nearly 20 years professional investment and professional CFO at capital market.

# Anthony Zhan

Zera Culture Group President (new three board listing company) /Executive Producer

Creators of Thematic Experiences

Famous Actor, designer, university lecture, activity content planning and organizer

SMG TV show ,Disney IP operations in China, Scene district program ect

We want to learn form you:

To C: Music therapy (Autism/ Insomnia)

Music learning (Identification /Error correction)

To B:Music and effect sound creation

Music creation assistance( Games, plays, movies)

# Ben Timms

Head of UK R&D (Music Notation)



## Hopes for the workshop

- Improve awareness of state of the art
- Explore opportunities for collaboration
- Share commercial insights

## Interests in AI

- Modeling human expression in playback
- Audio and image conversion to semantic music data
- Context-aware compositional aids



# Rudy Wimmer

WORKING: CBi China Bridge - Innovation Officer & Designer

EXPLORING: Co-Creation / Floatation Theory and Scencory

MENTORING: Companies & People we invested in

## My Interest In AI / Exponential Technologies

**Increase the value and positive outcomes of creativity and design**, ideally by increasing the effective utilization a unique gift that we humans have, but often forget how to use, CREATIVITY:

## Can AI become a Exponential Creativity Enabling Technology”

As a non-musician, I hope better to better understand the boundaries and opportunities to co-create with AI (at different levels). To me meaningful ideas/solutions are the byproduct of orchestrated data, context tied to a intended result.





CENTER FOR  
DIGITAL INNOVATION  
同济大学数字创新中心

**Prof. Sun Xiaohua**

Vice Dean of Tongji D&I, Director of CDI

**Dr. Wang Qi**

Associate Prof.

**Jan Dornig**

Associate Research Fellow

Interest

Research on interaction and system design involving AI  
Design Driven Artificial Intelligence

Workshop

Looking to build partnerships for future research initiatives  
Better understand the AI and Music landscape and needs in China and UK

# BaroxTech



Zhao Yang

Cofounder & CEO

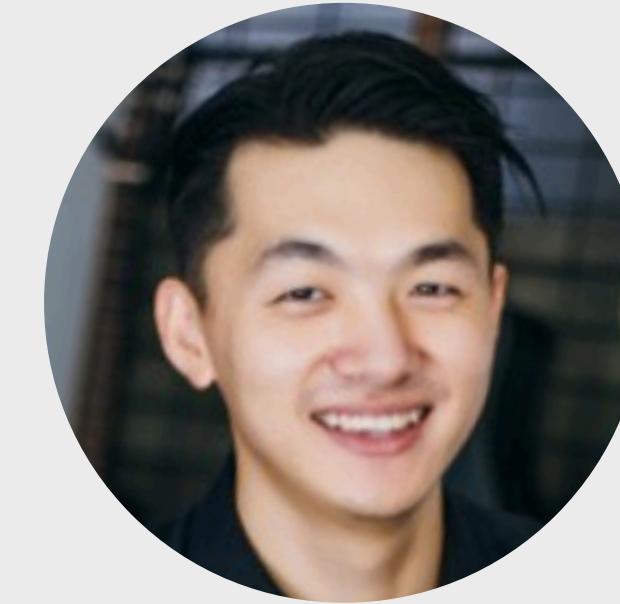
Physics Ph.d. at Stanford, accomplished in 4 years

BaroxTech aims to make the music education universal  
& interest-based, powered by AI.

Hope to meet smart people interested in the  
interdisciplinary area between music & AI.

Hope to discuss about the boundary where AI can  
propel the music education.

# BaroxTech



**Hao Zhang**

Cofounder

B.S. in Shanghai conservatory of music

Major in piano performance, music education

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interdisciplinary area between music & AI.

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## **Tongji-Dadawa Sound Lab**

**Yinan Zhang Key member/artist , Zhao Liu PM**

### **Interest in AI for Music :**

Create music intelligently

### **What you hope to get out of the workshop :**

How to identify the scope/boundary of AI music  
development trends of AI music

Does AI music really have a future? Think about the situation of VR

- Name: Aozhi Liu
- Company: PingAn Technology
- Role: Team Leader of AI Music Group
- Interest in AI for Music: AI Composition
- Hope to get out of the workshop: Chance to cooperation in Automatic Mixing technology

- Name: Qingying Zhu
- Company: PingAn Technology
- Role: Leader of Singing Synthesis Project
- Interest in AI for Music: Singing Synthesis
- Hope to get out of the workshop: Chance to cooperation in Singing Synthesis technology



# Hui Zhang • 张卉

- A Ph.D. student from Next Lab, Zhejiang University.
- Research interests include music information retrieval, affective computing and human-computer interaction.
- Explore and extend the way computers understand and perceive music from a human perspective.
- See the latest applications of Music AI in the creative industries and the similarities/differences between the UK and China.

● huimanzi

✉ huiz@zju.edu.cn

📍 Hangzhou, China