

# YU LIANG

PHD CANDIDATE | SPOTIFY RESEARCH SCIENTIST INTERN

The Netherlands

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## PROFESSIONAL EXPERIENCE

### Spotify

HCI RESEARCH SCIENTIST INTERN

- Research on Human-Computer Interaction

**Amsterdam, The Netherlands**

June. 2022 - Sept. 2022

### Jheronimus Academy of Data Science (JADS)

PHD RESEARCHER

- Research focused on recommender system from user-centered perspective

**Den Bosch, The Netherlands**

Mar. 2018 - Nov. 2022

### Delft University of Technology

RESEARCH STUDENT

- Multimedia Computing Group
- Research focused on new recommendations with contextual multi-armed bandit algorithms

**Delft, The Netherlands**

Sept. 2016 - Sept. 2017

## EDUCATION

### Eindhoven University of Technology (TU/e)

PH.D. IN HUMAN TECHNOLOGY INTERACTION

Supervisors: Dr. Martijn C. Willemsen and Prof. Chris Snijders

**Eindhoven, The Netherlands**

Mar. 2018 - Nov. 2022

### Delft University of Technology

M.SC. IN COMPUTER SCIENCE (TRACK: DATA SCIENCE)

- Master thesis : An ensemble approach for news recommendation based on contextual bandit algorithms
- Supervisor: Prof. Martha Larson

**Delft, The Netherlands**

Sept. 2015 - Sept. 2017

### University of Electronic Science and Technology of China

B.ENG. IN COMPUTER SCIENCE

**Chengdu, China**

Sept. 2011 - Sept. 2015

## PEER-REVIEWED PUBLICATIONS

### CONFERENCE PAPER

A longitudinal study – Exploring the effect of nudging on users' genre exploration behavior and listening preference

**Yu Liang and Martijn C. Willemsen**

*Recsys' 22 (Full paper: to be appear)*

The role of preference consistency, defaults and musical expertise in users' exploration behavior in a genre exploration recommender

**Yu Liang and Martijn C. Willemsen**

*Recsys' 21 (Full paper + demo)*

Interactive Music Genre Exploration with Visualization and Mood Control

**Yu Liang and Martijn C. Willemsen**

*IUI' 21 (Full paper)*

Recommender system for developing new preferences and goals

**Yu Liang**

*Recsys' 19 (Doctor symposium)*

Personalized recommendations for music genre exploration

**Yu Liang and Martijn C. Willemsen**

*UMAP' 19 (Full paper)*

### WORKSHOP PAPERS

How playlist evaluation compares to track evaluations in music recommender systems

**Sophia Hadash, Yu Liang, Martijn C Willemsen**

*Recsys' 19 (IntRS workshop)*

CLEF NewsREEL 2017: contextual bandit news recommendation

**Yu Liang, Babak Loni, Martha Larson**

*CLEF' 17 (NewsREEL)*

## UNDER REVIEW

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Promoting Music Exploration Through Personalized Nudging in a Genre Exploration Recommender

Yu Liang and Martijn C. Willemsen

*Submitted to IJHCI*

## OPEN SOURCE PROJECT

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User Study Framework for Music Genre Exploration

 [Github](#)

- A real-world recommendation framework to support users to explore new music genres and live musical events
- Backend developed with Flask, PostgreSQL, Spotify API, and Python machine learning libraries (Sklearn and NetworkX)
- Deployed with Docker and Heroku

## TEACHING EXPERIENCE AND PRESENTATIONS

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### TEACHING EXPERIENCE

Interactive and Explainable AI Design

*JADS*

Teaching assistant

*Feb, 2022 - June, 2022*

Data Science Master Course - Supercrunchers: The Human in an Era of Data Science

*TU/e and JADS*

Teaching assistant

*2019 - 2021*

Project: The role of social media in event recommender system

*Master thesis, TU/e*

Co-supervisor

*July, 2020 - March, 2021*

Project: Music Exploration out of Users' Comfort Zone in a Live Musical Event (JADS musical night)

*Bachelor thesis project, TU/e*

Co-supervisor

*Sept, 2020 - Feb, 2021*

Project: Interactive Music Genre Exploration

*Bachelor thesis project, TU/e*

Co-supervisor

*Mar. 2018 - July 2018*

### INVITED TALKS

Personalized recommendations for music genre exploration

*Amsterdam, The Netherlands*

*DIR' 19*

## PROFESSIONAL SERVICE

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- IUI' 21 Student Volunteer
- Recsys' 19 Student Volunteer
- CLEF' 17 and MediaEval Workshop'17 Student Volunteer

## HONORS & AWARDS

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- ACM RecSys '19 SIGCHI Travel Grant

## PROFESSIONAL SKILLS

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RESEARCH FOCUS	Recommender Systems, User Experience Research, Quantitative Analysis, Machine Learning, Human-Computer Interaction
DATA SCIENCE TOOLKIT	Scikit-learn, Numpy, Pandas, Scipy, NetworkX, Lavana
SOFTWARE DEVELOPMENT	Flask, Docker, Heroku, PostgreSQL, RESTful API, jQuery, Ajax
PROGRAMMING LANGUAGES	Python, R, SQL, Java, C#, JavaScript
LANGUAGES	Chinese (native), English (professional working proficiency), Dutch (A2)