

# YU LIANG

PHD CANDIDATE

The Netherlands

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## PROFESSIONAL EXPERIENCE

Jheronimus Academy of Data Science (JADS)

*Den Bosch, The Netherlands*

PHD RESEARCHER

*Mar. 2018 - Sept. 2022*

- Research focused on recommender system from user-centered perspective

## EDUCATION

Eindhoven University of Technology (TU/e)

*Eindhoven, The Netherlands*

PH.D. IN HUMAN TECHNOLOGY INTERACTION

*Mar. 2018 - Sept. 2022*

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

Delft University of Technology

*Delft, The Netherlands*

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

*Sept. 2015 - Sept. 2017*

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

University of Electronic Science and Technology of China

*Chengdu, China*

B.ENG. IN INFORMATION SECURITY

*Sept. 2011 - Sept. 2015*

## PEER-REVIEWED PUBLICATIONS

### CONFERENCE PAPER

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

*Recsys' 21 (Full paper + Demo)*

**Yu Liang** and Martijn C. Willemsen

Interactive Music Genre Exploration with Visualization and Mood Control

*IUI' 21 (Full paper)*

**Yu Liang** and Martijn C. Willemsen

Recommender system for developing new preferences and goals

*Recsys' 19 (Doctor Symposium)*

**Yu Liang**

Personalized recommendations for music genre exploration

*UMAP' 19 (Full paper)*

**Yu Liang** and Martijn C. Willemsen

### WORKSHOP PAPERS

How playlist evaluation compares to track evaluations in music recommender systems

*Recsys'19 (IntRS Workshop)*

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

CLEF NewsREEL 2017: contextual bandit news recommendation

*CLEF' 17 (NewsREEL)*

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

## OPEN SOURCE PROJECT

User Study Framework for Music Genre Exploration

 [Github](#)

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

## TEACHING EXPERIENCE AND PRESENTATIONS

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### TEACHING EXPERIENCE

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

*TU/e and JADS*

*Supervisor for data assignment*

*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, Quantitative Analysis, Machine Learning, User Research, Human-Computer Interaction
DATA SCIENCE TOOLKIT	Scikit-learn, Numpy, Pandas, Scipy
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)