

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

JOURNAL PAPER

Promoting Music Exploration Through Personalized Nudging in a Genre Exploration Recommender

Yu Liang and Martijn C. Willemsen

International Journal of HCI

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)

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 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

TEACHING EXPERIENCE

Interactive and Explainable AI Design

Teaching assistant

JADS

Feb, 2022 - June, 2022

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

Teaching assistant

TU/e and JADS

2019 - 2021

Project: The role of social media in event recommender system

Co-supervisor

Master thesis, TU/e

July, 2020 - March, 2021

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

Co-supervisor

Bachelor thesis project, TU/e

Sept, 2020 - Feb, 2021

Project: Interactive Music Genre Exploration

Co-supervisor

Bachelor thesis project, TU/e

Mar. 2018 - July 2018

INVITED TALKS

Personalized recommendations for music genre exploration

Amsterdam, The Netherlands

DIR' 19

PROFESSIONAL SERVICE

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

HONORS & AWARDS

- ACM RecSys '19 SIGCHI Travel Grant

PROFESSIONAL SKILLS

RESEARCH FOCUS	Recommender Systems, User Experience Research, Quantitative Analysis, Machine Learning, Human-Computer Interaction
DATA SCIENCE TOOLKIT	Scikit-learn, Numpy, Pandas, Scipy, NetworkX, Lavan
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)