YU LIANG

PHD CANDIDATE | SPOTIFY RESEARCH SCIENTIST INTERN

The Netherlands

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PROFESSIONAL EXPERIENCE

Spotify — *Amsterdam, The Netherlands*
HCI RESEARCH SCIENTIST INTERN — *June. 2022 - Sept. 2022*
- Research on users' interaction with Spotify Platform

Jheronimus Academy of Data Science (JADS) — *Den Bosch, The Netherlands*
PHD RESEARCHER — *Mar. 2018 - Nov. 2022*
- Research focused on recommender system from user-centered perspective

Delft University of Technology — *Delft, The Netherlands*
RESEARCH STUDENT — *Sept. 2016 - Sept. 2017*
- Multimedia Computing Group
- Research focused on new recommendations with contextual multi-armed bandit algorithms

EDUCATION

Eindhoven University of Technology (TU/e) — *Eindhoven, The Netherlands*
PH.D. IN HUMAN TECHNOLOGY INTERACTION — *Mar. 2018 - Nov. 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 COMPUTER SCIENCE — *Sept. 2011 - Sept. 2015*

PEER-REVIEWED PUBLICATIONS

JOURNAL PAPER

Promoting Music Exploration Through Personalized Nudging in a Genre Exploration Recommender — *International Journal of HCI*
Yu Liang *and Martijn C. Willemsen*

CONFERENCE PAPER

A longitudinal study – Exploring the effect of nudging on users' genre exploration behavior and listening preference — *Recsys' 22 (Full paper: to be appear)*
Yu Liang *and Martijn C. Willemsen*

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 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 *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

- 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, Lavaan
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)