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

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 - 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

UNDER REVIEW

Promoting Music Exploration Through Personalized Nudging in a Genre Exploration Recommender	*Submitted to IJHCI*

Yu Liang and Martijn C. Willemsen

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

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*

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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)