

Olivier JEUNEN

PhD Candidate @ University of Antwerp

Recommender Systems & Machine Learning

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Antwerp, Belgium

i Born the 5th of May 1995 (24 years old) in Antwerp, Belgium



Pre-doctoral researcher in the Adrem Data Lab at the University of Antwerp, supervised by Prof. Dr. Bart Goethals.
My main line of research is centred around (implicit-feedback) recommender systems, ranging from algorithms to evaluation.

SKILLS AND INTERESTS

Programming	C, C++, Java, Python
Scripting	CSS, Javascript, HTML, \LaTeX , PHP, R, SQL
Frameworks	D3, Hadoop, Hive, Keras, Numpy, Pandas, Scipy, Scikit-Learn, Spark, PyTorch
Web Services	Amazon Web Services, Google Cloud, Microsoft Azure
Research Interests	Counterfactual learning, data mining, deep learning, information retrieval, machine learning, natural language processing, recommender systems, reinforcement learning

PROFESSIONAL EXPERIENCE

Present	PhD Candidate, UNIVERSITY OF ANTWERP, Belgium
October 2017	Research focused on implicit-feedback recommender systems and their evaluation.
November 2020	Research Scientist Intern, FACEBOOK, London, UK
September 2020	Research centred around applications of causal and counterfactual inference for advertising.
August 2020	Research Scientist Intern, PANDORA + SIRIUSXM, Oakland, CA, USA
May 2020	Research centred around applications of causal and counterfactual inference for music recommendation.
September 2019	Research Scientist Intern, CRITEO AI LAB, Paris, France
June 2019	Research centred around applications of causal and counterfactual inference for recommendation.
August 2017	Data Scientist, FROOMLE, Antwerp, Belgium
	Back-end development for a real-time recommendation architecture.
June 2017	Data Scientist & Research Intern, PREDICUBE, Antwerp, Belgium
July 2016	Research and back-end development of a distributed predictive modelling pipeline in Spark.
June 2017	Data Scientist & Research Intern, TECHNICOLOR, Antwerp, Belgium
September 2015	Internships, student jobs and MSc thesis focused on machine learning applications with IoT data.
September 2014	Software Analyst, DUVEL MOORTGAT, Antwerp, Belgium
	Student job analysing requirements for a new CRM system.
September 2013	Student Jobs, VARIOUS, Belgium
August 2011	Grill employee, brewery employee, IT department employee, ...

EDUCATION

2017 - Present	PhD in Computer Science, University of Antwerp (<i>expected graduation: September 2021</i>)
Sept. 2019	ACM Summer School on Recommender Systems (Gothenburg, Sweden)
2015 - 2017	MSc Computer Science: Data Science & Research, University of Antwerp (magna cum laude)
Jan. - May 2015	Erasmus exchange programme, University of Edinburgh (UK)
2012 - 2016	BSc Computer Science, University of Antwerp (cum laude)
2006 - 2012	High School Diploma: Latin - Mathematics (option extra mathematics)

TEACHING & INVITED TALKS

2019 - Present	Artificial Intelligence Project (University of Antwerp, MSc Computer Science)
2017 - Present	Supervisor and jury member for research theses (University of Antwerp, MSc Computer Science)
July 2020	A Gentle Introduction to Recommendation as Counterfactual Policy Learning (ACM Conference on User Modeling, Adaptation and Personalization (UMAP), Genoa, Italy)
Feb. 2020	Counterfactual Policy Learning for Recommendation (Spring Workshop on Mining and Learning (SMiLe), Saigerhöh, Germany)
Dec. 2019	Counterfactual Policy Learning for Recommendation (Dutch-Belgian DataBase Day (DBDBD), 's Hertogenbosch, Netherlands)
Nov. 2019	Efficient Similarity Computation for Collaborative Filtering in Dynamic Environments (Dutch-Belgian Information Retrieval workshop (DIR), Amsterdam, Netherlands)
Nov. 2019	Revisiting Offline Evaluation for Implicit-Feedback Recommender Systems (Information Retrieval Seminars, University of Glasgow, UK)
Sept. 2019	Bandit Feedback and Likelihood Models for Recommendation (ACM Summer School on Recommender Systems, Gothenburg, Sweden)
June 2019	Bandit Feedback and Likelihood Models for Recommendation (Data Science Summer School, École Polytechnique, Paris, France)
2017 - 2019	Project Data Science (University of Antwerp, MSc Computer Science)

PROFESSIONAL SERVICE

Journal Reviewer	ACM ToIS, IEEE TKDE
Member	ACM SIGCHI, SIGIR, SIGKDD

LANGUAGES

Dutch	● ● ● ● ●
English	● ● ● ● ●
French	● ● ● ○ ○
German	● ○ ○ ○ ○

HONOURS

- > 1st place in Criteo's RecoGym Challenge '20
- > Doctoral Symposium at ACM RecSys '19
- > SIGCHI Travel Grant for ACM RecSys '19

STRENGTHS

- > Passionate about data
- > Motivated and eager-to-learn
- > Autonomous and critical
- > Creative and effective

PROJECTS

RECOGYM

JUNE 2019

 github.com/criteo-research/reco-gym

A Reinforcement Learning Environment for the problem of Product Recommendation in Online Advertising
Ongoing project by Criteo AI Lab.

Recommender Systems Reinforcement Learning Evaluation

WSDM CUP: SPOTIFY SEQUENTIAL SKIP PREDICTION

JANUARY 2019

 CrowdAI  Workshop Paper  github.com/olivierjeunen/sequential-skip-prediction

CrowdAI research competition, 5th place out of 386 teams, top 2%.

Predictive modelling of user interaction behaviour with recommended music; solo side-project.

Personalisation Recommender Systems Neural Networks

VARIOUS KAGGLE COMPETITIONS

2017-2018

 Kaggle

Various research competitions, top 2 - 4%.

Natural Language Processing Recommender Systems Neural Networks

PATENTS

O. Jeunen, E. Zeljko, P. Bosch, K. Van Doorselaer, N. Godman. June 2017. **A Method for Allocating Frequency Channels to a Plurality of Neighbouring Access Points.** eu 17305724.1 – 1875

Wi-Fi Channel Allocation IoT

Joint Policy-Value Learning for Recommendation.

O. Jeunen, D. Rohde, F. Vasile and M. Bompaire. 2019. (*Under review*)

Recommender Systems Counterfactual Learning

A Gentle Introduction to Recommendation as Counterfactual Policy Learning.

F. Vasile., D. Rohde, O. Jeunen and A. Benhalloum. 2019. UMAP '20 (Tutorial)

Recommender Systems Counterfactual Learning

Three Methods for Training on Bandit Feedback.

D. Mykhaylov, D. Rohde, F. Vasile, M. Bompaire and O. Jeunen. CausalML '19 (NeurIPS Workshop)

Recommender Systems Counterfactual Learning

Learning from Bandit Feedback: An Overview of the State-of-the-art.

O. Jeunen, D. Mykhaylov, D. Rohde, F. Vasile, A. Gilotte and M. Bompaire. REVEAL '19 (RecSys Workshop)

Recommender Systems Counterfactual Learning

On the Value of Bandit Feedback for Offline Recommender System Evaluation.

O. Jeunen, D. Rohde and F. Vasile. REVEAL '19 (RecSys Workshop)

Recommender Systems Counterfactual Evaluation

Efficient Similarity Computation for Collaborative Filtering in Dynamic Environments.

O. Jeunen, K. Verstrepen, B. Goethals. RecSys '19

Recommender Systems Algorithms Efficiency Scalability

Revisiting Offline Evaluation for Implicit-Feedback Recommender Systems.

O. Jeunen. RecSys '19 (Doctoral Symposium)

Recommender Systems Evaluation Counterfactual Inference

Interactive Evaluation of Recommender Systems with SNIPER - An Episode Mining Approach.

S. Moens, O. Jeunen, B. Goethals. RecSys '19 (Demo)

Recommender Systems Evaluation Pattern Mining

Predicting Sequential User Behaviour with Session-based Recurrent Neural Networks.

O. Jeunen, B. Goethals. WSDM Cup '19 (WSDM Workshop)

Recommender Systems Neural Networks Classification

A Machine Learning Approach for IEEE 802.11 Channel Allocation.

O. Jeunen, P. Bosch, M. Van Herwegen, K. Van Doorselaer, N. Godman, S. Latré. CNSM '18

Wi-Fi Channel Allocation IoT Master Thesis

Fair Offline Evaluation Methodologies for Implicit-Feedback Recommender Systems with MNAR Data.

O. Jeunen, K. Verstrepen, B. Goethals. REVEAL '18 (RecSys Workshop)

Recommender Systems Evaluation

“ REFERENCES

Bart Goethals

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Flavian Vasile

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