Olivier **Jeunen** PhD Candidate @ University of Antwerp Machine Learning & Recommender Systems

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i Born the 5th of May 1995 (25 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. Recently, my interests have been focusing on applications of causal and counterfactual inference to recommendation.

Skills and Interests

Programming C, C++, Java, Python

Scripting CSS, Javascript, HTML, LTEX, 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 and causal inference, data mining, deep learning, information retrieval, ma-

chine learning, natural language processing, recommender systems, reinforcement learning



PROFESSIONAL EXPERIENCE

Present October 2017	PhD Candidate, University of Antwerp, Belgium Research focused on implicit-feedback recommender systems and their evaluation.
November 2020 September 2020	Research Scientist Intern, FACEBOOK, London, UK (Remote due to COVID-19) Research centred around applications of causal and counterfactual inference for advertising.
August 2020 May 2020	Research Scientist Intern, PANDORA + SIRIUSXM, Oakland, CA, USA (Delayed due to COVID-19) Research centred around applications of causal and counterfactual inference for music recommendation.
September 2019 June 2019	Research Scientist Intern, CRITEO AI LAB, Paris, France 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 July 2016	Data Scientist & Research Intern, PREDICUBE, Antwerp, Belgium Research and back-end development of a dsitributed predictive modelling pipeline in Spark.
June 2017 September 2015	Data Scientist & Research Intern, TECHNICOLOR, Antwerp, Belgium 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 Customer-Relationship-Management system.
September 2013 August 2011	Student Jobs, Various, Belgium Grill employee, brewery employee, IT department employee,



EDUCATION

2017 - Present	PhD in Computer Science, University of Antwerp (expected graduation: September 2021)
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 (excluding conference presentations)

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), Online)
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	Counterfactual Policy Learning for Recommendation
	(Data Science Meetups, Leuven, Belgium)
Sept. 2019	Bandit Feedback and Likelihood Models for Recommendation
	(ACM Summer School on Recommender Systems, Gothenburg, Sweden)
June 2019	Neural Networks and Causal Recommendation
	(Data Science Summer School, École Polytechnique, Paris, France)
2017 - 2019	Project Data Science (University of Antwerp, MSc Computer Science)

Q Professional Service



Journal Reviewer ACM ToIS, IEEE TKDE Member

ACM SIGCHI, SIGIR, SIGKDD

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

LANGUAGES



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 Al Lab.

Recommender Systems Reinforcement Learning Evaluation

WSDM Cup: Spotify Sequential Skip Prediction

JANUARY 2019

🔇 CrowdAl 🔇 Workshop Paper 🕠 github.com/olivierjeunen/sequential-skip-prediction

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

Predictive modelling of user interaction behaviour with recommended music.

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. Zeljkovic, 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



- 1. An Empirical Evaluation of Doubly Robust Learning for Recommendation.
 - O. Jeunen and B. Goethals. 2020. REVEAL'20 (RecSys Workshop)
- 2. Closed-Form Models for Collaborative Filtering with Side-Information.
 - O. Jeunen, J. Van Balen and B. Goethals. 2020. RecSys'20 (Late-Breaking-Result)
- 3. Joint Policy-Value Learning for Recommendation.
 - O. Jeunen, D. Rohde, F. Vasile and M. Bompaire. 2020. KDD'20
- 4. A Gentle Introduction to Recommendation as Counterfactual Policy Learning.
 - F. Vasile, D. Rohde, O. Jeunen and A. Benhalloum. 2020. UMAP'20 (Tutorial)
- 5. Three Methods for Training on Bandit Feedback.
 - D. Mykhaylov, D. Rohde, F. Vasile, M. Bompaire and O. Jeunen. CausalML'19 (NeurIPS Workshop)
- 6. 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)
- 7. On the Value of Bandit Feedback for Offline Recommender System Evaluation.
 - O. Jeunen, D. Rohde and F. Vasile. REVEAL'19 (RecSys Workshop)
- 8. Efficient Similarity Computation for Collaborative Filtering in Dynamic Environments.
 - O. Jeunen, K. Verstrepen and B. Goethals. RecSys'19
- 9. Revisiting Offline Evaluation for Implicit-Feedback Recommender Systems.
 - O. Jeunen. RecSys'19 (Doctoral Symposium)
- 10. Interactive Evaluation of Recommender Systems with SNIPER An Episode Mining Approach.
 - S. Moens, O. Jeunen and B. Goethals. RecSys'19 (Demo)
- 11. Predicting Sequential User Behaviour with Session-based Recurrent Neural Networks.
 - O. Jeunen and B. Goethals. WSDM Cup'19 (WSDM Workshop)
- 12. A Machine Learning Approach for IEEE 802.11 Channel Allocation.
 - O. Jeunen, P. Bosch, M. Van Herwegen, K. Van Doorselaer, N. Godman and S. Latré. CNSM'18
- 13. Fair Offline Evaluation Methodologies for Implicit-Feedback Recommender Systems with MNAR Data.
 - O. Jeunen, K. Verstrepen and B. Goethals. REVEAL'18 (RecSys Workshop)



Bart Goethals Flavian Vasile

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