

Yanou Ramon

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My research interest is to use data mining to study and predict human behavior and preferences. I've been developing explanation methods to understand and improve AI systems on big behavior and text data.

Languages	Dutch (native), English, French
Programming	Python, Matlab, R, MySQL
Technical Skills	Relational databases (e.g. <i>PostgreSQL</i>), Cloud computing (e.g. <i>Amazon EC2</i>)
Data Analysis	Predictive Modeling: Data Exploration, Visualisation, Preprocessing, NLP, Supervised Machine Learning (e.g. <i>SVM</i>), Evaluation & Model Interpretability Statistical Methods: Survey design (e.g. <i>Qualtrics</i>), Inferential statistics (e.g. <i>regression</i>), Choice modeling (e.g. <i>hierarchical Bayes</i>)

EDUCATION

Oct '18 – present	Ph.D. Fellowship – Research Foundation Flanders Applied Data Mining, University of Antwerp Supervisor: Prof. David Martens <ul style="list-style-type: none"> ➤ Designed explanation methods to better understand decisions of prediction models trained on big behavior and text data ➤ Implemented explainer objects in Python (open-source code on Github)
Oct '16 – June '18	M.Sc. in Business Engineering (Finance) University of Antwerp, great distinction (80/100) <ul style="list-style-type: none"> ➤ Major: European & International Business ➤ Fall semester '17: Toulouse School of Management (France) ➤ July '16: Summer school Washington DC (US)
Oct '13 – June '16	B.Sc. in Business Engineering University of Antwerp, great distinction (78/100)

WORK EXPERIENCE

Oct '19 – present	Organizer Summer School “American Business” (Washington DC)
Oct '18 – present	Teaching Assistant <ul style="list-style-type: none"> ➤ Data Mining, Ethics in Data Science, and Data Engineering ➤ Designed Python tutorials and organized Data Science Challenge

PUBLICATIONS & CONFERENCES

Publications	Sofie De Cnudde, Yanou Ramon , David Martens, Foster Provost. Deep Learning on Big, Sparse, Behavioral Data. <i>Big Data</i> , 7(4), p.286-307, 2019. Available online . Yanou Ramon , David Martens, Foster Provost, Theodoros Evgeniou. A comparison of instance-level explanation algorithms for behavioral and textual data: SEDC, LIME-C and SHAP-C. <i>Advances in Data Analysis and Classification</i> , 2020. Available online .
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Yanou Ramon, David Martens, Theodoros Evgeniou, Stiene Praet. Metafeatures-based Rule-Extraction for Classifiers on Behavioral and Textual Data, arXiv preprint:2003.04792, 2020. (*under review*)

Conferences

Yanou Ramon, David Martens. Comparative study of instance-level explanations for big data. *EURO Conference*, Dublin, Ireland, June '19.

Yanou Ramon, David Martens. Instance-based explanations: motivation, overview, and the evidence counterfactual approach. European Conference on Data Analysis, Bayreuth, Germany, March '19.

AWARDS & RECOGNITION

Oct '20

Winner of Best Paper Award and a €1,000 Prize

- Doctoral Day, Faculty of Business & Economics, University of Antwerp
- Selected out of 41 submitted papers
- *Increasing Global Understanding of Prediction Models on Behavior Data*

May '18

Next Generation Women Leaders Event by McKinsey & Company (Paris)

- One of 200 participants selected worldwide to join a 3-day event filled with inspirational talks on leadership, solving case studies, and networking

Nov '17 – present

Member of Beta Gamma Sigma Society – “Best in Business”

- Honor of Academic excellence for top business students

Oct '16 – May '18

Junior Management Program

Faculty of Business & Economics, University of Antwerp

- One of 25 students selected by the Dean based on academic achievements
- Enhanced soft-skills and developed professional goals in a series of workshops

Dec '16

Finalist Data Science Challenge

- Developed credit scoring tool in Matlab for professional loans at AXA insurance

ACTIVITIES & SERVICE

Program Committee & Invited Talk

Workshop on Advances in Interpretable ML and AI (CIKM online), Oct '20
Comparison of Algorithms for Explaining Prediction Models on Behavior Data

Invited Talk

LenddoEFL Knowledge Sharing, New York City, Oct '19
Counterfactual Explanations for Models on Behavior and Textual

Blogpost

KDnuggets, May '20
Evidence Counterfactuals for Explaining Models on Big Data

PERSONAL INTERESTS

Hobbies

Field hockey ('10-'12: National team), running, yoga, ski/snowboard

Ambitions

Democratize (ethical) Artificial Intelligence
Advocate for data-driven decision-making in companies and government
Inspire more women to pursue a career in technology & engineering
Teach children programming & problem-solving skills from an early age