MYRTHE REUVER

Computational Linguist, Data Scientist, PhD Candidate @ Free University of Amsterdam

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RESEARCH EXPERIENCE

PhD candidate: Diverse News Recommendation

Free University of Amsterdam (VU)

Sept 2020 – present Amsterdam

- PhD project on diversity in news recommender systems. Intention to work with language models to automatically detect diversity in news texts.
- Supervised by dr. Antske Fokkens of the CLTL research group at the Free University of Amsterdam and dr. Suzan Verberne at Leiden University

Thesis Student: Graduation Projects Clinical NLP

Topicus Healthcare

Dec 2019 – Sept 2020 Deventer

- MSc thesis on classification of complaint category in emergency GP triage (huisartsenpost),
- ResMA thesis on detection and classification of smoking status from EMRs with weak supervision & transfer learning|

ResMA Research Internship "Classifying Urban Legends"

Meertens Institute

Feb 2019 – July 2019 Amsterdam

- Results: a popular science article in *Neerlandistiek*, a simple interface demo for the model, a conference presentation at the DHBenelux conference in Liège (September 2019), and a poster presentation at CLIN30 (Computational Linguistics in the Netherlands) in January 2020.

Honours MA program: "Thinking Machines"

Radboud Honours Academy & REshape Innovation

Sept 2017 - June 2018 Nijmegen

- **Certificate**: Interdisciplinary Honours Program: 1-year Honours think tank programme on prototyping an AI for people with type 2 Diabetes.

EDUCATION

MSc. Cognitive Science & Artificial Intelligence

Tilburg University

February 2019 – July 2020 Tilburg

Completed. GPA: 7.9 / 10

- Thesis: "What Kind of Emergency? Providing Complaint Labels for Dutch Short Clinical Texts with Supervised & Explainable Machine Learning" (Grade: 8/10)

Courses (selection): Machine Learning, Deep Learning, Advanced Data Processing with Python

Research MA Linguistics, track: Language & Speech Technology

Radboud University

September 2017 – current Nijmegen

GPA: 8 / 10

- Thesis: "Finding the Smoke Signal: Smoking Status Extracti Classification" (Grade: 8 out of 10)
- Internship: Classifying Urban Legends at Meertens Institute (Grade: 9 out of 10)
- Member of Curriculum Committee; editor-in-chief journal RU:ts; Honours MA program; teaching assistant

Courses (selection): Text and Multimedia Mining, Introduction to Language & Speech Technology, Advanced Statistics in R

BA English Language & Culture

Radboud University

Sept 2014 – June 2017 Nijmegen

Completed. GPA: 8.6 / 10 (cum laude)

- **certificate** BA Honours Programme Arts: Research Project, Text Mining on Old English author Ælfric
- Text Mining Summerschool Aarhus University, Denmark

Bachelor of Journalism, first-year diploma

Christelijke Hogeschool Ede (CHE)

Sept 2012 – August 2013 Ede

Completed.

- presenter at radio station "Radio Almelo"

HAVO (high school)

't Nijrees, Almelo

Sept 2007 – July 2012 Almelo

Completed.

TEACHING

Teaching Assistant B1 course "Information Science"

prof. dr. Martha Larson

April 2018 – June 2020 Radboud University, Nijmegen

A first-year bachelor's course about the basics of (digital) information science, data, privacy, algorithms and machine translation. Tasks: lecturing segments of lectures, designing, preparing and grading the curriculum: exercises, assignments, and exams.

PRESENTING & PUBLISHING

Founder & Editor-in-Chief

Foundation RU:ts Student Linguistics Journal

Sept 2018 – Sept 2020 Nijmegen

- Together with fellow master's students Iris Faber / Sander Nederveen, started a journal where students are authors, editors, and peer reviewers. We set up a foundation, with as goal to spread high-quality student research and to get students acquainted with the academic publishing process.

Publications (***P** means peer reviewed*)

- Burton, Anthony et al. (September 2019) "Streams of the Deep Web: Rebel Media, YouTube, and the algorithmic shaping of media ecosystems". Digital Methods Initiative Wiki, University of Amsterdam. link to article
- Brandsen, Alex et al. (2019) Brinkeys Tool and Research Report. KB Lab: The Hague, the Netherlands. https://lab.kb.nl/tool/brinkeys-tool
- Reuver, Myrthe. (October 2019) Hoe een computer broodjeaapverhalen leert categoriseren. *Vertelcultuur, Online Journal.* link to article

Presentations and Talks

- **P** Reuver, Myrthe. *"How Similar are Poodles in the Microwave? Classification of Urban Legend Types"*. **Poster** at Computational Linguistics in the Netherlands, Utrecht, January 2020.
- Reuver, Myrthe. *"Making the Computer Understand Urban Legend Types (And Making Humans Understand the Computer)"*. Moving Humanities Graduate Conference, Nijmegen: 24 October 2019.
- **P** Reuver, Myrthe. *"Amputation or Accident? Classifying Dutch Urban Legends into Story Types with a Hierarchical Classifier"*. Digital Humanities BeNeLuX, Liège: 13 Sept 2019.
- Reuver, Myrthe. *"Whose Gender is It? Possessive Pronoun Errors by Portuguese L2 speakers of English."* 13th TWIST Student Conference in Linguistics, Leiden. 13 April 2019.
- Reuver, Myrthe. *"First-Person Visibility: Ælfric's Pronouns in his Prefaces"*, StuTs Student Linguistics Conference, Nijmegen. 24 November 2017.

LANGUAGES

- **Python**, proficient: including sklearn & pandas
- **R**, proficient
- **Java**, familiar
- **html & css**, familiar

- **Dutch**, mothertongue
- (**Academic) English**, C2 (near-Native)
- **German**, B2 (decent)
- **Latin**, B1 (basic)

SKILLS

- Text Mining / Data Mining with complex data
- Machine Learning
- Natural Language Processing
- LaTeX
- (Academic) Writing
- Public Speaking and Presenting

EVENTS AND AWARDS

"ICT with Industry" research week

Lorentz Centre and NWO

January 2019 Leiden

- Developing a prototype for the National Library (Koninklijke Bibliotheek, KB) in a team. Results: a demo prototype, a report, and an NWO Science vlog about my experiences.
- Skills: working in a team, conceptualizing and breaking down a complex problem.

Winner Hackathon "Diverse Recommendation"

NPO and Media Perspectives

October 2020 Virtual

- A 24-hour hackathon on designing a topic, viewpoint, and content diverse news & media recommender for Dutch public broadcaster NPO. 5 teams of Data Scientists and researchers competing.
- Won the hackathon with an interdisciplinary team of philosophers, communication scientists, and computationals (Marijn Sax, Felicia Loecherbacher, Sanne Vrijenhoek and Nicolas Mattis)
- Skills: interdisciplinary collaboration, performing under pressure, presenting research to jury, working with stake-holders on complex problems.