ADRIAAN LEMMENS

NLP Researcher

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ABOUT ME

I've been solving problems with **Nat**ural **Lang**uage **Proc**essing for over **5** years, drawing on a solid foundation in both **machine learning** and linguistics. I'm always learning new things, not just about NLP, and I get a real kick out of sharing what I've learned with others. If you're looking for someone who is scientifically minded, values good engineering, and can engage a (non-)technical audience – that might just be me!

SPECIALIZATIONS

Deep Learning
NLP & Search
Efficient Python

SOFT SKILLS

Teaching & public speaking
Empathy
Attention to detail

RECENT SKILLS

Web dev & JS
LLM prefix tuning
Neural graph mining

EXPERIENCE

Oct 2021 — **Doctoral Researcher** — KU Leuven

- Probing LMs for latent linguistic representations that can be applied to linguistic research.
- Building an end-to-end text analytics web app for researchers in the humanities.

Jan 2021 – Jul 2021 — **NLP / Search Engineer** — Henchman

Took ownership of Henchman's search and NLP backend, successfully delivering new features under fast-changing requirements. Mentored a junior colleague and became an Elasticsearch wizard.

Aug 2019 – Jan 2021 — **NLP / ML Engineer** — Brainjar

Consulted on predominantly NLP-focused projects to deliver end-to-end applications powered by machine learning. Example assignments:

- Productized Document AI
- Predicting airport capacity issues
- Search consultant

Aug 2017 – Aug 2019 — **Computational Linguist / NLP Engineer** — NLP Town

Developed models, algorithms, and services for clients in various sectors. Example assignments:

- Automatic post-editing for machine translation
- Information extraction on healthcare documents
- Knowledge mining on user-submitted text

EDUCATION

2016 – 2017	**MSc. Artificial Intelligence**	KU Leuven, BE
	Speech & Language Technology. Four-month internship at NLP Town.	
2015 – 2016	**MA Formal & Computational Linguistics**	KU Leuven, BE
	Thesis: A simple pictograph–to–text translation system for cognitively disabled users. Presented at CLIN27 conference.	
2011 – 2015	**BA Languages & Literature**	KU Leuven, BE
	Specialization: Linguistics	
2006 – 2010	**IGCSEs & International Baccalaureate**	NAIS, Pudong, CN

CERTIFICATES

| 2019 | **Certified Associate in Python Programming** | Python Institute |

TECH SKILLS

Natural Language Processing (NLP)

Wide range of applications · Neural transfer · Linguistic intuition · Fast data generation & annotation · Intimate knowledge of OSS libraries · Historical knowledge

Software Engineering

Backend architectures · Testing, profiling, complexity analysis · OOP · ML abstractions · CI/CD

Machine Learning (ML)

Deep and shallow · Custom architectures · Mathematical intuition · Data tricks · Model serving · Pytorch

DBs

SQLite · PostgreSQL · Elasticsearch

Programming languages

Expert Python · JS · Go, C++ & many more.

Misc

Git · CI/CD · Linux · K8s, Docker · GCP, AWS

OPEN SOURCE

2023	**django_components** Reusable Django components	EmilStenstrom
2021	**sopredictable** [WIP] Take the excitement out of model persistence.	lemontheme
2020	**BentoML** Model serving made easy.	BentoML
2020	**trefwurd** [Archived] Lemmatization rule induction with regex generation and ML	lemontheme
2019	**spaCy** Industrial-strength NLP	Explosion.ai