

LUCAS WEBER

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Education

University Pompeu Fabra

Ph.D. Computational Linguistics

Barcelona, ES

2019 – ongoing

- Thesis: *Interpreting the Learning Dynamics of Language Models*
- DTCL-Scholarship
- supervision by:
 - * Dr. Elia Bruni (University of Osnabrück)
 - * Dr. Dieuwke Hupkes (FAIR)

University of Amsterdam

RMSc. Brain and Cognitive Sciences; Track: Cognitive Science

Amsterdam, NL

2016 – 2018

- with distinction ('cum laude') | equiv. GPA (US): 4.0
- Thesis-project: **MRC-CBU, University of Cambridge**
 - * [Empirical paper](#), [Review paper](#)

University of Vienna

BSc. Psychology

Vienna, AT

2013 – 2016

- equiv. GPA (US): 3.9
- ERASMUS-exchange: **University of Groningen**

Talks and Presentations

Samaya AI: Invited talk | Oral presentation

2024

- Presenting work on *tinyBenchmarks*

DLBCN 2023 | Poster presentation

2023

- Presenting work on *Mind the instructions*

GenBench @ EMNLP 2023 | Poster presentation

2023

- Presenting work on *Mind the instructions* and *The ICL consistency test*

CoNLL 2023 | Oral presentation

2023

- Presenting work on *Mind the instructions: a holistic evaluation of consistency and interactions in prompt-based learning*
- Honourable mention (rated as one of the 4 best papers at the conference)

ENS Paris, Invited talk at CoML | Oral presentation

2022

- Presenting work on *Teaching with language-commentaries*

ELLIS-NLP Workshop 2021 | Poster-presentation

2021

- Presenting work on *Meeting Formal Linguistics and Optimization*

EVIL (UPF/FAIR-internal meeting) | Oral presentation

2021

- Presentation *Similarity Probing in the Linguistic Task-Space*

EACL 2021 | Oral-presentation

2021

- Presenting work on project *Language Modelling as a Multi-Task Problem*

TAB (Seminar series at UPF/UvA/CIMeC) | Oral presentation

2021

- Presentation *Language Modelling as a Multi-Task Problem*

EVIL (UPF/FAIR-internal meeting) | Oral presentation

2019

- Presentation *Continual Learning in Language Emergence in artificial conversational agents*

First author publications

- Weber, L., Bruni, E. and Hupkes, D. (2023) *The ICL consistency test*, GenBench 2023
- Weber, L., Bruni, E. and Hupkes, D. (2023) *Mind the instructions: a holistic evaluation of consistency and interactions in prompt-based learning*, CoNLL 2023
- Weber, L., Jumelet, J., Bruni, E. and Hupkes, D. (2021) *Language Modelling as a Multi-Task Problem*, EACL 2021

Pre-prints / Under review

- Maia Polo, F., Weber, L., Choshen, L., Sun, Y., Xu, G. and Yurochkin, M. (2024) *tinyBenchmarks: evaluating LLMs with fewer examples*, Under review
- Weber, L., Jumelet, P., Bruni, E. and Hupkes, D. (2024) *Interpreting Language Models via Task Spaces*, Under review
- Weber, L., Jumelet, J., Michel, P., Bruni, E. and Hupkes, D. (2023) *Curriculum Learning with Adam: The Devil Is in the Wrong Details*, arXiv / Under review

Open-source contributions

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| tinyBenchmarks <i>Creation and publication</i> | 2024 |
| <ul style="list-style-type: none">• Subsamples (n=100) of the MMLU, open LLM leaderboard, helm-lite and AlpacaEval datasets paired with an item-response model to do efficient benchmarking for LLMs. Find on the huggingface hub at tinyBenchmarks/*. | |
| ICL consistency test <i>Creation and publication</i> | 2023 |
| <ul style="list-style-type: none">• A NLP task for the consistency evaluation of LLMs. Find the code on github. | |
| ICL consistency dataset <i>Creation and publication</i> | 2023 |
| <ul style="list-style-type: none">• A NLP dataset the consistency evaluation of LLMs. Find on the huggingface hub at LucasWeber/icl_consistency_test. | |

Teaching

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| Computational Semantics <i>Graduate Teaching Assistance</i> | 2021 - 2022 |
| <ul style="list-style-type: none">• DTCL, University Pompeu Fabra• Language of instruction: English• Content: Introduction to distributional semantics and NLP | |
| Recursos TIC <i>Teaching Assistance</i> | 2021 - 2022 |
| <ul style="list-style-type: none">• DTCL, University Pompeu Fabra• Language of instruction: Spanish/Catalan• Content: IT-resources for linguists | |
| Descripció i Anàlisi 2 <i>Teaching Assistance</i> | 2020 – 2022 |
| <ul style="list-style-type: none">• DTCL, University Pompeu Fabra• Language of instruction: English/German/Catalan• Content: Phonology/Morphology/comp. Linguistics | |
| Descripció i Anàlisi 1 <i>Teaching Assistance</i> | 2020 |
| <ul style="list-style-type: none">• DTCL, University Pompeu Fabra• Language of instruction: English/German• Content: Syntax | |
| Foundations of Neural and Cognitive Modelling <i>Graduate Teaching Assistance</i> | 2017 |
| <ul style="list-style-type: none">• IIS, University of Amsterdam• Language of instruction: English• Content: Dynamical systems | |

Organization

UR-LING workshop | *Lead organizer*

2021

- United workshop for different sub-fields of linguistics at University Pompeu Fabra

Supervision

Thesis projects | *Co-supervision*

2022

- Leon Schmid at IKW, University of Osnabrück
- Simon Helling at IKW, University of Osnabrück

Skills

Languages:

German (native);

English (fluent);

Dutch (fluent);

Spanish (fluent);

French (basic);

Catalan (basic);

Latin

Programming languages: Python, MATLAB, R

Frameworks: Pytorch, Tensorflow; DeepSpeed, fairscale, FSDP