

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')
- Thesis-project: **MRC-CBU, University of Cambridge**
 - * [Click for thesis-project](#)
 - * [Click for literature-project](#)

University of Vienna

BSc. Psychology

Vienna, AT

2013 – 2016

- **University of Groningen, NL: ERASMUS-exchange**
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Teaching

Computational Semantics | Graduate Teaching Assistance

2021 - 2022

- DTCL, University Pompeu Fabra
- Language of instruction: English
- Content: Introduction to distributional semantics and NLP

Recursos TIC | Teaching Assistance

2021 - 2022

- DTCL, University Pompeu Fabra
- Language of instruction: Spanish/Catalan
- Content: IT-resources for linguists

Descripció i Anàlisi 2 | Teaching Assistance

2020 – 2022

- DTCL, University Pompeu Fabra
- Language of instruction: English/German/Catalan
- Content: Phonology/Morphology/comp. Linguistics

Descripció i Anàlisi 1 | Teaching Assistance

2020

- DTCL, University Pompeu Fabra
- Language of instruction: English/German
- Content: Syntax

Foundations of Neural and Cognitive Modelling | Graduate Teaching Assistance

2017

- IIS, University of Amsterdam
- Language of instruction: English
- Content: Dynamical systems

Talks and Presentations

DLBCN 2023 <i>Poster presentation</i>	2023
<ul style="list-style-type: none">• Presenting work on project <i>Mind the instructions: a holistic evaluation of consistency and interactions in prompt-based learning</i>	
GenBench @ EMNLP 2023 <i>Poster presentation</i>	2023
<ul style="list-style-type: none">• Presenting work on project <i>Mind the instructions</i> and <i>The ICL consistency test</i>	
CoNLL 2023 <i>Oral presentation</i>	2023
<ul style="list-style-type: none">• Presenting work on project <i>Mind the instructions: a holistic evaluation of consistency and interactions in prompt-based learning</i>• Honourable mention (rated as one of the top 4 papers at the conference)	
ENS Paris, Invited talk at CoML <i>Oral presentation</i>	2022
<ul style="list-style-type: none">• Presenting work on project <i>Teaching with language-commentaries</i>	
ELLIS-NLP Workshop 2021 <i>Poster-presentation</i>	2021
<ul style="list-style-type: none">• Presenting work on project <i>Meeting Formal Linguistics and Optimization</i>	
EVIL (UPF/FAIR-internal meeting) <i>Oral presentation</i>	2021
<ul style="list-style-type: none">• Presentation <i>Similarity Probing in the Linguistic Task-Space</i>	
EACL 2021 <i>Oral-presentation</i>	2021
<ul style="list-style-type: none">• Presenting work on project <i>Language Modelling as a Multi-Task Problem</i>	
TAB (Seminar series at UPF/UvA/CIMeC) <i>Oral presentation</i>	2021
<ul style="list-style-type: none">• Presentation <i>Language Modelling as a Multi-Task Problem</i>	
EVIL (UPF/FAIR-internal meeting) <i>Oral presentation</i>	2019
<ul style="list-style-type: none">• Presentation <i>Continual Learning in Language Emergence in artificial conversational agents</i>	

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. | |
| 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 in GenBench CBT 2023 | |
| 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 hf dataset hub | |

Organization

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| UR-LING workshop <i>Organization</i> | 2021 |
| <ul style="list-style-type: none">• United workshop for different sub-fields of linguistics at University Pompeu Fabra | |

Supervision

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| Thesis projects <i>Co-supervision</i> | 2022 |
| <ul style="list-style-type: none">• 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);
Chinese Mandarin (basic);
Catalan (basic);
Latin

Programming: Python, MATLAB, R, bash

Frameworks: Pytorch, Tensorflow; DeepSpeed, fairscale, FSDP