Timothee MICKUS

PERSONAL DATA

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PUBLICATIONS & COMMUNICATIONS

ACCEPTED (DEC 2022) "Idiosyncratic Frequency as a Measure of Derivation vs Inflection"
M. COPOT, T. MICKUS & O. BONAMI. To appear in *Journal of Language Modeling*.

SEPT 2022 "How to Dissect a Muppet: The Structure of Transformer Embedding Space."
T. MICKUS, D. PAPERNO & M. CONSTANT. In *Transactions of the ACL*.

JUL 2022 "Semeval-2022 Task 1: CODWOE – Comparing Dictionaries and Word Embeddings"
T. MICKUS, K. VAN DEEMTER, M. CONSTANT & D. PAPERNO; oral online presentation at SemEval 2022 workshop
(co-located with NAACL 2022).

DEC 2021 "About Neural Networks and Writing Definitions"
T. MICKUS, D. PAPERNO & M. CONSTANT; oral online presentation at DSNA 2021 conference.

AUG 2021 "A Game Interface to Study Semantic Grounding in Text-Based Models"
T. MICKUS, M. CONSTANT & D. PAPERNO; oral online presentation at Games and NLP (co-located with IEEE
CoG).

DEC 2020 "What Meaning-Form Correlation Has to Compose With"
T. MICKUS, T. BERNARD & D. PAPERNO; oral online presentation at COLING 2020 conference.

JUN 2020 "Génération Automatique de Définitions pour le Français"
T. MICKUS, M. CONSTANT & D. PAPERNO; oral online presentation at TALN 2020 conference.

JAN 2020 "What do you mean, BERT? Assessing BERT as a Distributional Semantics Model"
T. MICKUS, D. PAPERNO, M. CONSTANT & K. VAN DEEMTER; oral presentation at SciL 2020 conference.

SEP 2019 "Mark my Word: a Sequence-to-sequence Approach to Definition Modeling"
T. MICKUS, D. PAPERNO & M. CONSTANT; oral presentation at DL4NLP workshop (NODALIDA 2019); presented
as a poster to CLIN 2020.

JAN 2019 "Distributional Effects of Gender Contrasts Across Categories"
T. MICKUS, O. BONAMI & D. PAPERNO; presented as a poster at SciL 2019 conference.

WORK EXPERIENCE

APR 2022–NOW Postdoctoral Researcher at University of Helsinki, Helsinki
Machine Translation and explainable NLP, part of the FOTRAN and UNCERTAINTY-AWARE NEURAL LANGUAGE
MODELS projects.

AUG 2018–SEP 2018 Web & NLP Engineer at ELDA, Paris; *Development—Web Annotation Interface*

NOV 2017–JUL 2018 NLP Data Scientist at ESPRITS COLLABORATIFS, Paris area; *NLP—R&D*

NOV 2015–NOV 2017 Software Contractor at SPIRICA, Paris; *Development—Life Insurance Web Application*

OCT 2015–NOV 2017 R&D Engineer at MIDDLEWARE FACTORY, Paris area; *Computer Programming—R&D*

EDUCATION

INTERNSHIPS

FEB 2020–MAR 2020 NLP Intern at AIST AIRC, Tokyo
Reinforcement learning implementation of communication games.

NOV 2017–JUL 2018 NLP Intern at UNIVERSITÉ PARIS DIDEROT, Paris
Distributional Semantics Models approaches applied to French morphology of gender.

JAN 2016–JUN 2016 NLP Intern at UNIVERSITÉ PARIS DIDEROT, Paris
Compute and compare average conditional entropy over n-grams for two corpora (French and Mauritian
Creole).

JUN 2015–SEP 2015 NLP Intern at LIPN, UNIVERSITÉ PARIS 13 , Paris area
Corrective maintenance for the Hybride project (ANR-11-BS002-002 2011-2015) for extracting symptoms from
scientific articles on rare diseases. Hyperparameters optimization (Java & Bash).

School Curriculum

OCT 2018–MAR 2022	PHD. in COMPUTER SCIENCE, ATILF, **Université de Lorraine**, Nancy TITLE: "On the Status of Word Embeddings as Implementations of the Distributional Hypothesis" Investigations on the linguistic value of word embeddings. Using NLG to study the relation between distributional semantic representations and traditional dictionary definitions.
JAN 2022	WINTER SCHOOL in MACHINE LEARNING, **ALPS 2022**, Online
JUL 2019	SUMMER SCHOOL in MACHINE LEARNING, **DeepLearn 2019**, Warsaw
JUL 2018	Master of Science in COMPUTATIONAL LINGUISTICS, **Université Paris Diderot**, Paris GPA: 16.95/20, *summa cum laude*, rank not available. Thesis subject: "Grammatical Gender Contrasts in French: a distributional semantic approach".
JUL 2016	Undergraduate Degree in COMPUTATIONAL LINGUISTICS, **Université Paris Diderot**, Paris GPA: 15.287/20, *cum laude*, ranked 1st.
JUL 2015	Bachelor of Science in COMPUTATIONAL LINGUISTICS, **Université Paris Diderot**, Paris GPA: 16.66/20, *summa cum laude*, ranked 1st.

Scientific Outreach

Teaching

MAR 2023–APR 2023	Lectures on **Natural Language Understanding**, at UNIVERSITY OF HELSINKI as part of the Master's Programme in LINGUSITIC DIVERSITY AND DIGITAL HUMANITIES.
NOV 2020–FEB 2021	Lectures on **Word Embeddings** and **Data Mining**, at UNIVERSITÉ DE LORRAINE as part of the "Lexical Resources" class of the M.SC. in NLP.
OCT 2020–JAN 2021	Practical Lectures on **Programming** (Python), at UNIVERSITÉ DE LORRAINE as part of the "Algorithmics & Programming" class of the M.SC. in NLP.
OCT 2020–DEC 2020	Practical Lectures on **Web Development** , at UNIVERSITÉ DE LORRAINE HTML, CSS, JavaScript.
NOV 2020–DEC 2020	Practical Lectures on **Office Automation**, at UNIVERSITÉ DE LORRAINE Topics covered: Word processor software, Web search.
NOV 2020	Practical Lectures on **Shell** and LaTeX, at UNIVERSITÉ DE LORRAINE as part of the "Lexical Resources" class of the M.SC. in NLP.
NOV 2019–JAN 2020	Lectures on **Word Embeddings** and **Data Mining**, at UNIVERSITÉ DE LORRAINE as part of the "Lexical Resources" class of the M.SC. in NLP.
OCT 2019–JAN 2020	Practical Lectures on **Programming** (Python), at UNIVERSITÉ DE LORRAINE as part of the "Algorithmics & Programming" class of the M.SC. in NLP.
AUG 2019	Tutor for PYTHON4NLP Summer School, Nancy Providing help and guidance to attendees on presented python APIs & NLP libraries.
NOV 2018–DEC 2018	Lectures on **Word Embeddings** and **Multilingual Resources**, at UNIVERSITÉ DE LORRAINE as part of the "Lexical Resources" class of the M.SC. in NLP.

Other Administrative Duties

JUN 2021–JUL 2022	Organizer for the SemEval 2022 Shared Task on Comparing Embeddings & Dictionaries URL: https://github.com/TimotheeMickus/codwoe
APR 2021–DEC 2021	Member of the strategic committee "Université – Recherche – Santé"
MAR 2021–JUL 2021	Organizer for the CaféTAL NLP Reading Group, at ATILF
JUN 2020–AUG 2020	Supervised two NLP interns (Masters 1 students) Internship topic: preliminary work for establishing comparable sets of word embeddings; corresponding publication under review.
FEB 2019–JUL 2019	Organizer for the NLP Reading Group, at UNIVERSITÉ DE LORRAINE

Public Outreach

NOV 2021	Demo stand for the BlankCrack game at the FORUM DES SCIENCES COGNITIVES 2021 À NANCY.
JUL 2021–SEP 2022	Personal blog: "My PhD, explained to my folks"

Language Skills

French & English (native), German & Japanese (basic knowledge).