

Timothee MICKUS

PERSONAL DATA

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PUBLICATIONS & COMMUNICATIONS

PEER-REVIEWED PUBLICATIONS

- DEC 2020 “What Meaning-Form Correlation Has to Compose With”
T. MICKUS, T. BERNARD & D. PAPERNO; oral online presentation at COLING 2020 conference.
URL: <https://www.aclweb.org/anthology/2020.coling-main.333/>
- JUN 2020 “Génération Automatique de Définitions pour le Français”
T. MICKUS, M. CONSTANT & D. PAPERNO; oral online presentation at TALN 2020 conference.
URL: <https://hal.archives-ouvertes.fr/hal-02784756>
- 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.
URL: <https://scholarworks.umass.edu/scil/vol3/iss1/34/>
- 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. URL: <http://svn.nlp.eu/outreach/dl4nlp/2019/W19-0501.pdf>
- JAN 2019 “Distributional Effects of Gender Contrasts Across Categories”
T. MICKUS, O. BONAMI & D. PAPERNO; presented as a poster at Scil 2019 conference.
URL: <https://scholarworks.umass.edu/scil/vol2/iss1/19/>

PEER-REVIEWED ABSTRACTS

- JUN 2021 “What Neural Networks Need to Write Definitions”
T. MICKUS, D. PAPERNO & M. CONSTANT; oral online presentation at DSNA 2021 conference.
- JUN 2021 “Striking out on one’s own: Idiosyncratic frequency as a measure of derivation vs inflection”
M. COPOT, T. MICKUS & O. BONAMI; oral online presentation at PARADIGMO 2 Workshop.

EDUCATION

INTERNSHIPS

- FEB 2020–MAR 2020 NLP Intern at AIST AIRC, Tokyo
Reinforcement learning implementation of communication games. Experiments to determine necessary factors for grounded compositional language emergence, study of existing metrics of compositionality.
- NOV 2017–JUL 2018 NLP Intern at UNIVERSITÉ PARIS DIDEROT, Paris
Distributional Semantics Models approaches applied to French morphology of gender. Use of word embeddings and statistical analysis to explain facts relevant to gender assignment of French agent nouns.
- JAN 2016–JUN 2016 NLP Intern at UNIVERSITÉ PARIS DIDEROT, Paris
Implementation of a Bash & Python application to 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 optimisation (Java & Bash).

SCHOOL CURRICULUM

- OCT 2018–NOW PHD. in COMPUTER SCIENCE, ATILF, **Université de Lorraine**, Nancy
TITLE: “Generating Definitions and Semantic properties of words with Deep Learning and Rich Lexical Resources”
Using NLG to study the relation between distributional semantic representations and traditional dictionary definitions.
- 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. End-of-year project: “Word Sense Disambiguation using a Semantic Network”.

JUL 2015 Bachelor of Science in COMPUTATIONAL LINGUISTICS, **Université Paris Diderot**, Paris

GPA: 16.66/20, *summa cum laude*, ranked 1st. End-of-year project: “Levenshtein distance-based spell-checker”.

ADMINISTRATIVE RESPONSIBILITIES

TEACHING

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 TEX , 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 Setting up working environments (virtual machines, miniconda, git). Providing help and guidance to attendees on presented python APIs & libraries (NLTK, BeautifulSoup, spacy, sklearn...).
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–AUG 2022	Organizer for the SemEval 2022 Shared Task on Comparing Embeddings & Dictionaries URL: https://git.atilf.fr/tmickus/seed-semeval-2022
APR 2021–NOW	Member of the strategic committee “Université – Recherche – Santé” Committee chaired by J.Y. LE DÉAUT on Research and Attractiveness of the Greater Nancy area.
MAR 2021–NOW	Organizer for the CafÉTAL NLP Reading Group, at ATILF URL: https://git.atilf.fr/cafe-tal/presentations
JUN 2020–AUG 2020	Supervised two NLP interns (Masters 1 students) Internship topic: preliminary work for establishing comparable sets of word embeddings.
FEB 2019–JUL 2019	Organizer for the NLP Reading Group, at UNIVERSITÉ DE LORRAINE URL: https://timotheemickus.github.io/reading_group

WORK EXPERIENCE

AUG 2018–SEP 2018	Web & NLP Engineer at ELDA, Paris; <i>Development–Web Annotation Interface</i> Implementation of a web document annotation application & data-mining.
NOV 2017–JUL 2018	NLP Data Scientist at ESPRITS COLLABORATIFS, Paris area; <i>NLP–R&D</i> Word embeddings (word2vec), statistical analysis, clustering, classification & probabilistic models.
NOV 2015–NOV 2017	Software Contractor at SPIRICA, Paris; <i>Development–Life Insurance Web Application</i> Management of a marshalling and proxyfication framework. Development of an XML search tool.
OCT 2015–NOV 2017	R&D Engineer at MIDDLEWARE FACTORY, Paris area; <i>Computer Programming–R&D</i>

PRACTICAL SKILLS

COMPUTER SKILLS	Python 3 (pytorch, NLTK, django...) , Java 8 (JEE, JSF), JavaScript (jQuery), C/++, Bash (sed, awk, grep...), R, XML, XSD, Xpath, CSS, HTML, SQL, Unix (Ubuntu), OpenOffice, TEX
LANGUAGES	French & English (native), German & Japanese (basic knowledge); notions of Nahuatl, Latin, Ancient Greek, Arabic...