



PERSONAL INFORMATION

Nghia The Pham

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RESEARCH INTEREST

Natural Language Processing Compositional Distributional Semantics Multimodal meaning representations Deep Learning for NLP

EDUCATION AND TRAINING

11//2012-now

PhD

Doctoral School in Neuron and Brain Science, University of Trento

Supervisor: Prof. Dr. Marco Baroni (Facebook Al Research / University of Trento)

 Field: Natural Language Processing, Computational Linguistics, Compositional Distributional Semantics

5/2011 Msc

European Master Program in Language and Communication Technology

Free University of Bolzano, Italy and Saarland University, Germany

• Major: Computer Science, Computational Linguistics

• Grade: 109/110

Received Erasmus Mundus scholarship for non-European students (€42000 / 2 years)

3/2008 E

Faculty of Computer Science and Engineering, Ho Chi Minh City University of Technology

• Major: Computer Science

• Grade: 8.37/10

Honor program, rank 7/300

Summer schools

24/07/2013-31/07/2013: Lisbon Machine Learning Summer School

03/08/2015-12/08/2015: Deep Learning Summer School 2015 (Montreal Canada)

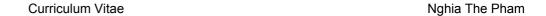
WORK EXPERIENCE

5/2012-11/2012

Research assistant (full-time)

University of Trento

- Task: Building <u>DISSECT toolkit</u>, a toolkit for compositional distributional semantics, which
 can be used to build semantic spaces from co-occurrence matrices, perform compositional
 operations on these semantic spaces and rely on them to measure semantic similarity
 between words or phrases.
- Skills required: Python





12/2009-9/2010

Research assistant (student job, part-time)

German Research Center for Artificial Intelligence (DFKI)

- Task: Maintaining Heart of Gold, a middle ware architecture, which integrates multiple language processing components. These components process natural language texts on different levels from shallow to deep, e.g. tokenization, chunking, shallow parsing and deep parsing.
- Skills required: Java, Python, shell-script

PUBLICATIONS

N. Pham, A. Lazaridou, M. Baroni 2015. <u>A Multitask Objective to Inject Lexical Contrast into Distributional Semantics</u>. Proceeding of ACL 2015 (**top tier conference**) (short)

N. Pham, G. Kruszewski, A. Lazaridou, M. Baroni 2015. <u>Jointly optimizing word representations for lexical and sentential tasks with the C-PHRASE model</u>. Proceeding of ACL 2015 (**top tier conference**)

A. Lazaridou, N. Pham, M. Baroni 2015. <u>Combining Language and Vision with a Multimodal Skip-gram Model</u>. Proceeding of NAACL 2015 (top tier conference)

D. Paperno, N. Pham and M. Baroni. 2014. <u>A practical and linguistically-motivated approach to compositional distributional semantics.</u> Proceedings of ACL 2014 (**top tier conference**) N. Pham, L.Ferrone, F.M. Zanzotto, 2014. Compositional Distributional Semantics Models in Chunk-based Smoothed Tree Kernels. Proceedings of *Sem 2014

G. Dinu, N. Pham and M. Baroni. 2013. <u>General estimation and evaluation of compositional distributional semantic models.</u> Proceedings of the ACL 2013 Workshop on Continuous Vector Space Models and their Compositionality

G. Dinu, N. Pham and M. Baroni. 2013. <u>DISSECT: DIStributional SEmantics Composition</u> Toolkit. Proceedings of the System Demonstrations of ACL 2013

G. Boleda, M. Baroni, L. McNally and N. Pham. 2013. <u>Intensionality was only alleged: On adjective-noun composition in distributional semantics.</u> Proceedings of IWCS 2013 N. Pham, R. Bernardi, Y.-Z. Zhang and M. Baroni. 2013. <u>Sentence paraphrase detection: When determiners and word order make the difference.</u> Proceedings of the Towards a Formal Distributional Semantics Workshop at IWCS 2013

OTHER ACTIVITIES

Reviewing

 EMNLP 2015 (top tier conference), STARSEM 2015, NAACL 2015 Student Research Workshop (secondary reviewer), ESSLLI Student Session 2015

PERSONAL SKILLS

Languages

• Vietnamese (mother language), English (proficient), German (basic), Italian (basic)

Progamming Languages

Java, Python, C++, Matlab

Operating Systems

Linux, Windows

ADDITIONAL INFORMATION

Honours and awards

2008, Erasmus Mundus scholarship for non-European students 1996, third prize in national Mathematics competition, Vietnam