


## 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 AI 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

**Bse**

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**

**Suumer 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 [DISSECT toolkit](#), 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. [A Multitask Objective to Inject Lexical Contrast into Distributional Semantics](#). Proceeding of ACL 2015 (**top tier conference**) (short)

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

A. Lazaridou, N. Pham, M. Baroni 2015. [Combining Language and Vision with a Multimodal Skip-gram Model](#). Proceeding of NAACL 2015 (**top tier conference**)

D. Paperno, N. Pham and M. Baroni. 2014. [A practical and linguistically-motivated approach to compositional distributional semantics](#). 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. [General estimation and evaluation of compositional distributional semantic models](#). Proceedings of the ACL 2013 Workshop on Continuous Vector Space Models and their Compositionality

G. Dinu, N. Pham and M. Baroni. 2013. [DISSECT: DIStributional SEmantics Composition Toolkit](#). Proceedings of the System Demonstrations of ACL 2013

G. Boleda, M. Baroni, L. McNally and N. Pham. 2013. [Intensionality was only alleged: On adjective-noun composition in distributional semantics](#). Proceedings of IWCS 2013

N. Pham, R. Bernardi, Y.-Z. Zhang and M. Baroni. 2013. [Sentence paraphrase detection: When determiners and word order make the difference](#). 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)

### Programming 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