



## 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 B

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)

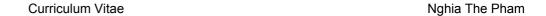
# **WORK EXPERIENCE**

### 5/2012-11/2012

# Research assistant (full-time)

University of Trento

- Task: Building <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