

Contact Information

Name Duc Tam Hoang (or simply Tam Hoang)
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Education

2013-2015 **Charles University in Prague** Czech Republic
 M.S, Computational Linguistics, Computer Science

- Graduate with honors
- GPA: 1.07 (*excellent* - equivalent to 3.9 in the US 4.0 scale)
- Thesis: Pivoting Vietnamese Machine Translation System

2008-2012 **University of Engineering and Technology, VNU** Vietnam
 B.Sc, Computer Science (Honors Program)

- GPA: 3.33/4.00 (*Distinction*)
- Thesis: An Ontology-based Vietnamese QA System for Academic Regulation

Work/Research Experience

2015-present **National University of Singapore, Singapore**
Research Assistant

- Topic: Grammatical Error Correction
- Task: Read papers, propose solutions, program systems and write reports/papers.

2014 **Institute of Formal and Applied Linguistics, MFF, UK**
Intern

- Topic: Statistical Machine Translation
- Task 1: Implement triangulation tools for Moses (Statistical Machine Translation - SMT)
- Task 2: Design SMT homeworks on CodEx

2013-2014 **TextAn - MFF automatic analysis of Police documents, Prague**
Developer - Software Project - MFF: <https://github.com/PreXident/TextAn>

- Topic: Automatic analysis of human report.
- Task: Implement Automatic Object Assigner: mapping natural entity to database object
- Sub-task: Implement a ranking scheme
- Sub-task: Integrate Machine Learning Classifier into a Java Project

2010-2013 **Human Machine Interaction Laboratory, UET/Coltech, VNU**
Research Assistant In cooperation with Japan Advanced Institute of Science and Technology

- **Topic 1: Question Answering Systems** (3 separated projects)
- Task 1: Design database in MySQL, Ontology OWL from text file
- Task 2: Design web interface for QA system
- Task 3: Write rules/patterns for Vietnamese questions (in multiple domains)
- Task 4: Implement maximum graph matching for tokens and objects.
- **Topic 2: Information Retrieval System**
- Task 1: Crawl data from forums and technical websites
- Task 2: Integrate cluster tool and search tools into project

Teaching Assistant

- Teaching Fundamental Informatics: C/C++ Programming
- Teaching Mathematics Team for the 21st Vietnam Mathematics Olympiad for Undergraduates, 2013.

2011 **Presentation Club, UET, VNU**
Organizer of club's meetings and events

Research Interests

I am interested in topics of Computational Linguistics

Background/Skills

- Background: Mathematics, Computational Linguistics, Computer Science.
- Programming Languages: **Python**, Perl, Shell/Bash Script, Java, C/C++.
- Tools: Git, Svn, MySQL, Lucene, Carrot², Moses (inc. eman/ems)
- Others: Regular Expression, Dynamic Programming, Object-oriented Programming, CSS/HTML/JSP.
- Favourite Editor: vim

Language Proficiency

- Vietnamese - native
- English - fluent
- Czech - basic

Awards & Honors

2014 Excellence Scholarship for top Students at Faculty of Mathematics and Physics, Charles University in Prague.

2013 Fully-funded master scholarship at Charles University in Prague.

2010-2012 1 First prize and 2 Second prizes at Vietnamese National Mathematical Olympiad for Undergraduates.
Several Young Symbolization awards at University of Engineering and Technology.
Government Fellowship for excellent students in the ISP program.
Excellent Academic Performance at UET/Coltech.
Rank 1st at the University Entrance Exam of UET/Coltech, VNU.

Publications

Conference papers

4. Duc Tam Hoang, Ondřej Bojar. **TmTriangulate: A Tool for Phrase-Table Triangulation**. The Prague Bulletin of Mathematical Linguistics, 2015.
3. Tung Xuan Vu, Minh Le Nguyen, Duc Tam Hoang. **Semantic Parsing for Vietnamese Question Answering System**. The 7th international conference on Knowledge and Systems Engineering, Vietnam, 2015.
2. Duc Tam Hoang, Minh Le Nguyen, Son Bao Pham. **L2S: Transforming natural language questions to SQL queries**. The 7th international conference on Knowledge and Systems Engineering, Vietnam, 2015.
1. Dat Tien Nguyen, Duc Tam Hoang, Son Bao Pham. **A Vietnamese Natural Language Interface to Database**[PDF]. Sixth IEEE International Conference on Semantic Computing September 19-21, 2012 Palermo, Italy

References

upon request

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