

Contact Information

Name Duc Tam Hoang (sometimes *Tam Duc Hoang* or *Hoang Duc Tam*)
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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**
Research Assistant

- Topic: Grammatical Error Correction
- Analyze problems, devise solutions, implement systems and report results.

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

- Topic: Statistical Machine Translation
- Collect and clean parallel corpora
- Implement triangulation tools for Moses framework
- Design SMT homework for "MT talks" (CodEx)

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

- Topic: Information Extraction
- Implement Automatic Object Assigner: mapping natural entity to database object
- Integrate Machine Learning Classifier into a Java Project

2011-2013 **Human Machine Interaction Laboratory , UET/Coltech, VNU**
Research Assistant In cooperation with Japan Advanced Institute of Science and Technology

- Topic: Question Answering Systems (3 separated projects)
 - Create database in MySQL and Ontology OWL from text file
 - Write rules/patterns for Vietnamese questions (in multiple domains)
 - Implement maximum graph matching for QA system
- Topic: Information Retrieval System
 - Crawl data from forums and technical websites
 - Cluster, index and query the collection using tools

Teaching Assistant

- Teach fundamental informatics for freshmen of Computer Science.
- Coach mathematics for the 21st Vietnam Mathematics Olympiad for Undergraduates.

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

Research Interests

I am interested in topics of Computational Linguistics

Background/Skills

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

Language Proficiency

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

Awards & Honors

2014 Excellence Scholarship for top 1% 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.
Young Symbolization award at University of Engineering and Technology.
Government Fellowship for excellent students.
Excellent Academic Performance at UET/Coltech.
Rank 1st at the University Entrance Exam of UET/Coltech, VNU.

Publications

Published papers¹

6. Duc Tam Hoang, Shamil Chollamppattu and Hwee Tou Ng. **Exploiting N-Best Hypotheses to Improve an SMT Approach to Grammatical Error Correction**. In Proceedings of the International Joint Conference on Artificial Intelligence, 2016.
5. Duc Tam Hoang and Ondřej Bojar. **Data and Pivoting Methods for Czech-Vietnamese Translation via English**. In Proceedings of the 19th Annual Conference of the European Association for Machine Translation, 2016.
4. Duc Tam Hoang and Ondřej Bojar. **TmTriangulate: A Tool for Phrase-Table Triangulation**. The Prague Bulletin of Mathematical Linguistics, 2015.
3. Tung Xuan Vu, Minh Le Nguyen and Duc Tam Hoang. **Semantic Parsing for Vietnamese Question Answering System**. In Proceedings of the 7th international conference on Knowledge and Systems Engineering, 2015.
2. Duc Tam Hoang, Minh Le Nguyen and Son Bao Pham. **L2S: Transforming natural language questions to SQL queries**. In Proceedings of the 7th international conference on Knowledge and Systems Engineering, 2015.
1. Dat Tien Nguyen, Duc Tam Hoang and Son Bao Pham. **A Vietnamese Natural Language Interface to Database**. In Proceedings of the 6th International Conference on Semantic Computing, 2012.

Others

2. Duc Tam Hoang and Ondřej Bojar. **CsEnVi Pairwise Parallel Corpora**. LINDAT/CLARIN digital library at Institute of Formal and Applied Linguistics, Charles University in Prague, 2015.
1. Duc Tam Hoang and Ondřej Bojar. **WMT 13 Test Set**. LINDAT/CLARIN digital library at Institute of Formal and Applied Linguistics, Charles University in Prague, 2015.

¹There are also “upcoming” papers, please take a look at my full list of publications for more details