

Hyungsuk Ji

LED (Language and DialogueTeam)
LORIA, Campus Scientifique - BP 239
F-54506 Vandœuvre Cedex, France

tel.: +33 3 8359 2047
fax: +33 3 8341 3079
e-mail: Hyung-suk.JI@loria.fr

Education

Ph.D.	Institut National Polytechnique de Grenoble Cognitive Science. Dissertation: <i>A Computational model for word sense representation using contextual relations</i>	France 2004
D.E.A.	Institut National Polytechnique de Grenoble Cognitive Science. Thesis: <i>A Computational model for the representation of lexicons in phonological-semantic space</i>	France 2000
Maîtrise	University of Bordeaux II Cognitive Science. Thesis: <i>Natural language production: simulation with IAC neural network (Interactive Activation and Competition network)</i>	France 1999
B.S.	University of Bordeaux II Cognitive Science	France 1998
M.S.	Seoul National University (the most prestigious institution of higher education in South Korea) Chemistry. Thesis: <i>Computational molecular dynamics simulation</i>	South Korea 1997

Academic position

Postdoctoral fellow at INRIA, France (2004 – present)
Fellowship awarded by INRIA (National Institute for Research in Computer Science and Automatic Control Engineering)

Collaborative experience

Research at LATL (Natural Language Analysis and Technology Lab) (2001 – 2003, discontinuous), Department of Linguistics, University of Geneva, Switzerland
Eurodoc Scholarship awarded

Publications

Hyungsuk Ji, Sabine Ploux and Eric Wehrli. (2003). Lexical knowledge representation with contonyms. In *Proceedings of the 9th MT summit*, 194-201. [Pdf](#)

Hyungsuk Ji and Sabine Ploux. (2003). Automatic contonym organizing model (ACOM). In *Proceedings of the 25th Annual Conference of the Cognitive Science Society*, 622-627. [Pdf](#)

Hyungsuk Ji and Sabine Ploux. (2003). A mental lexicon organization model. In *Proceedings of the 4th Joint International Conference on Cognitive Science*, 240-245.

Sabine Ploux and Hyungsuk Ji. (2003). A model for matching semantic maps between languages (French/English, English/French). *Computational Linguistics*, 29(2):155-178. [Pdf](#)

Research interests

- Corpus linguistics, unsupervised learning, data clustering, statistical machine translation
- Word sense disambiguation, lexical knowledge acquisition, knowledge representation, semantic network
- Cognitive linguistics, philosophy of mind, conceptual metaphor, lexical semantics, construction grammar, information retrieval
- Related models/topics: Latent Semantic Analysis, Framenet, Head-driven phrase structure grammar, stochastic grammar, ontology, psycholinguistics

Technical skills / Academic service

- C/C++, Java, Perl, Python, Prolog, Fortran, JavaScript, Shell scripting, Neural network design, etc.
- Administrator of the FreeBSD/Linux Web server (2001 - 2004, academic research purpose): installation, configuration, and maintenance (<http://dico.isc.cnrs.fr>)
- Maintenance programmer of C programs (2001 - 2004) and co-creator of the Java programs for the on-line computational linguistic model Atlas (<http://dico.isc.cnrs.fr>)
- Creator of the ACOM (Automatic Contexonym Organizing Model) (<http://dico.isc.cnrs.fr/dico/context/search>)

Languages

- Korean: native
- English: near-native fluency
- French: near-native fluency
- Japanese and Chinese: reading/writing knowledge
- Latin and Greek: reading knowledge

References

Available upon request