

# Moonyoung Kang

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## Education

- Northeastern University (NU)** **Boston, MA, USA** (Sep. 2012 - present)  
Ph.D candidate in **Computer Science** (College of Computer and Information Science)
- Carnegie Mellon University (CMU)** **Pittsburgh, PA, USA** (Aug. 2007 - Aug. 2009)  
M.L.T. (equivalent to M.S.) in **Computational Linguistics** (Language Technologies Institute, School of Computer Science)
- Seoul National University (SNU)** **Seoul, Korea** (Mar. 2001 - Sep.2003, Sep.2005 - Aug.2007)  
B.S. in **Computer Science and Engineering (CSE)** GPA 3.99/4.30 (Summa Cum Laude) (Aug. 2007)  
Undergraduate **Intern Student** at Structural Complexity Lab (<http://sc.snu.ac.kr>). (Sep. 2005 - Nov. 2006)

## Selected Works

- Teaching Assistant** **Boston, MA, USA** (Jan. 2013 - May. 2013)  
TA of **Parallel Data Processing in MapReduce** course by Prof. Mirek Riedewald, Northeastern University
- Staff Scientist** **Cambridge, MA, USA** (Sep. 2009 - Jul. 2012)  
Raytheon BBN Technologies
- Research Assistant** **Pittsburgh, PA, USA** (May. 2008 - Aug. 2009)  
Lab of Prof. Carolyn P. Rosé, Language Technologies Institute, School of Computer Science, Carnegie Mellon University
- Military Service** **Yongin, Korea** (Sep. 2003 - Sep.2005)  
Served as an **interpreter** and **secretary** soldier between Republic of Korean (ROK) Army and Combat Support Coordination Team (CSCT), US Army.

## Selected Projects & Programs

- Trevii** (Sep. 2012 -present; launched Oct. 2014)  
Co-founder & CTO of the project  
Chief architect, developer, and manager of the project.  
<http://www.trevii.com/>
- Robust Automatic Transcription of Speech (RATS)** (Jan. 2011 - Sep. 2012)  
Worked on building BBN's Language Identification (LID) system based on Phone Recognition Language Model (PRLM) technology during RATS project, which was funded by U.S. Defense Advanced Research Projects Agency (DARPA).
- Global Autonomous Language Exploitation (GALE)** (Sep. 2009 - Feb. 2011)  
Worked on developing language models for BBN's speech-to-text (STT) system during GALE project, which was funded by DARPA. Mainly focused on introducing Neural Network Language Model to BBN's system and improving STT result.
- SIDE: Summarization Integrated Development Environment** (Nov. 2007 - Aug. 2009)  
Project at CMU LTI with the group of Professor Carolyn P. Rose. SIDE is a text summarization toolkit which helps people to use linguistics and machine learning technologies on their summarization process without professional knowledge on the technologies. Weka, tagHelperTools, and UIMA technology used. <http://www.cs.cmu.edu/~cprose/SIDE.html>

## Publications

- Integer Linear Programming Formulation for Multi-day Single-City Trip Plan** (Oct. 2013)  
*Kang, M.*  
Cooperative Education & Research for Hospitality & Tourism Educators (euroCHRIE 2013)
- Integer Programming Formulation of Finding Cheapest Ticket Combination over Multiple Tourist Attractions** (Jan. 2013)  
*Kang, M.*  
Information and Communication Technologies in Tourism 2013 (Proceedings of the International Conference in Innsbruck, Austria, January 23-25, 2013). Berlin - Heidelberg: Springer

**Mandarin word-character hybrid-input Neural Network Language Model** (Aug. 2011)

*Kang, M., Ng, T., Nguyen, L.*

36th International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2011)

**SIDE: The Summarization Integrated Development Environment** (Jul. 2008)

*Kang, M., Chaudhuri, S., Joshi, M., Rose, C.*

46th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies

**Supporting The Guide On The Side** (Jun. 2008)

*Kang, M., Chaudhuri, S., Kumar, R., Wang, Y., Rose, E., Cui, Y., Rose, C.*

9th International Conference on Intelligent Tutoring Systems

**Analyzing the Regularity of Genomes Using Compression and Expression Simplification** (Apr 2007)

*Jungseok Shin, Moonyoung Kang, R.I. (Bob) McKay, Xuan Nguyen, Tuan-Hao Hoang, Naoki Mori, and Daryl Essam*

10th European conference on Genetic Programming (EuroGP 2007): 251-260

**Code Duplication And Developmental Evaluation In Genetic Programming** (Oct. 2006)

*Kang, M., Shin, J., Hoang, T. H., McKay, RI (Bob), Essam, D., Mori, N., and Nguyen, X. H.*

10th Asian-Pacific Workshop on Intelligent and Evolutionary Systems, IES2006

**Patents**

**System and Method for Optimizing Ticket Cost over a Travel Itinerary** (Apr. 2013, pending)

*Moonyoung Kang*

Application number: 13854989

**Awards**

Excellent Student Award (given by 24th President of Seoul National University, Jang-Moo Lee) (Sep. 2006)

Excellent Student Award (given by 23rd President of Seoul National University, Un-Chan Chung) (Mar. 2006)

**Other**

**PowerPoint, MS Word** expert

**Bilingual** in **Korean** and **English**. Conversant in **Japanese**.

Last updated : Oct. 24, 2014