

Pi-Chuan Chang

<http://nlp.stanford.edu/~pichuan>

EDUCATION

- **PhD in Computer Science** **2004-2009**
Stanford University, CA
 - Advisor: Christopher Manning
 - Natural Language Processing Group, Artificial Intelligence Laboratory
 - Thesis:
Improving Chinese-English Machine Translation through Better Source-side Linguistic Processing
 - also hold a Masters degree in Computer Science, Stanford
- **Master of Science in Computer Science** **2002-2004**
National Taiwan University, Taiwan
 - Advisor: Lin-shan Lee
 - Digital Speech Processing Laboratory
 - Thesis: Chinese Language Modeling Enhancement by Corpora and Lexicon Refinement
- **Bachelor of Science in Computer Science** **1998-2002**
National Taiwan University, Taiwan

WORK EXPERIENCE

- **Software Engineer in Research group** **October 2009-Present**
Google Research
- **Software Engineer Intern in Image Search** **June 2008-September 2008**
Google
- **Research Internship in Natural Language Processing** **June 2006-September 2006**
Microsoft Research

PUBLICATIONS

- **Deterministic Statistical Mapping of Sentences to Underspecified Semantics**
Hiyan Alshawi, Pi-Chuan Chang, and Michael Ringgaard.
In *IWCS 2011*. **January 2011**
- **Uptraining for Accurate Deterministic Question Parsing**
Slav Petrov, Pi-Chuan Chang, Michael Ringgaard, and Hiyan Alshawi.
In *EMNLP 2010*. **October 2010**
- **Stanford University's Arabic-to-English Statistical Machine Translation System for the 2009 NIST Evaluation**
Michel Galley, Spence Green, Daniel Cer, Pi-Chuan Chang, Christopher D. Manning.
In *the 2009 NIST Open Machine Translation Evaluation Meeting*. **August 2009**
- **Improving Chinese-English Machine Translation through Better Source-side Linguistic Processing**
Pi-Chuan Chang
PhD thesis **July 2009**
- **Discriminative Reordering with Chinese Grammatical Relations Features**
Pi-Chuan Chang, Huihsin Tseng, Dan Jurafsky, and Christopher Manning.
In *NAACL Third Workshop on Syntax and Structure in Statistical Translation* **June 2009**
- **Disambiguating “DE” for Chinese-English Machine Translation**
Pi-Chuan Chang, Dan Jurafsky, and Christopher Manning.
In *EACL Fourth Workshop on Machine Translation* **March 2009**
- **Optimizing Chinese Word Segmentation for Machine Translation Performance**
Pi-Chuan Chang, Michel Galley, and Christopher Manning.
In *ACL Third Workshop on Machine Translation* **June 2008**

- **Stanford University's Chinese-to-English Statistical Machine Translation System for the 2008 NIST Evaluation** **March 2008**
Michel Galley, Pi-Chuan Chang, Daniel Cer, Jenny R. Finkel, Christopher D. Manning.
In *Proceedings of the 2008 NIST Open Machine Translation Evaluation Workshop*
- **A Discriminative Syntactic Word Order Model for Machine Translation** **June 2007**
Pi-Chuan Chang, Kristina Toutanova.
In *The Annual Meeting of the Association for Computational Linguistics*
- **Automatically Detecting Action Items in Audio Meeting Recordings** **July 2006**
William Morgan, Pi-Chuan Chang, Surabhi Gupta, and Jason M. Brenier.
In *Proceedings of the 7th SIGdial Workshop on Discourse and Dialogue*
- **A Conditional Random Field Word Segmenter for SIGHAN Bakeoff 2005** **October 2005**
Huihsin Tseng, Pichuan Chang, Galen Andrew, Daniel Jurafsky, and Christopher Manning.
In *SIGHAN Workshop on Chinese Language Processing*
- **Improved Language Model Adaptation Using Existing and Derived External Resources** **November 2003**
Pi-Chuan Chang and Lin-shan Lee.
In *IEEE Workshop on Automatic Speech Recognition and Understanding*
- **Improved Chinese Broadcast News Transcription by Language Modeling with Temporally Consistent Training and Iterative Phrase Extraction** **September 2003**
Pi-Chuan Chang, Shou-Peng Liao, and Lin-shan Lee.
In *European Conference on Speech Communication and Technology*

PATENTS

- **Discriminative Syntactic Word Order Model for Machine Translation** **12/25/2008**
Kristina Nikolova Toutanova, Pi-Chuan Chang.
USPTO Application #: 20080319736

SKILLS

- Programming: C/C++, Java, Python, Perl, C#, Matlab, MySQL
- Languages: Mandarin Chinese (native), Taiwanese (native), English

OTHER PROJECTS

- **Mentoring for MAGIC (More Active Girls In Computing),** **November 2008-Present**
 - Meet with the mentee every week to work on programming projects and talk about science and technology.
 - In 2011, I'm mentoring a high school student in Eastside College Preparatory School in East Palo Alto.
 - In 2009 and 2010, I mentored two middle school girls in Girls' Middle School in Mountain View.
 - <http://www.getmagic.org/>
- **Financial Officer in Women in Computer Science (WiCS),** **Fall 2008-August 2009**
Stanford University.
 - Managed the funds for the Women in Computer Science student group.