

Panupong (Ice) Pasupat

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OBJECTIVE Pursuing a research internship in the field of natural language processing.

EDUCATION

Stanford University Stanford, CA
Pursuing Doctor of Philosophy in Computer Science current

Massachusetts Institute of Technology Cambridge, MA
Bachelor of Science in Electrical Engineering and Computer Science (GPA 5.0/5.0) 2009-2013

EXPERIENCE

Google Research, Google Mountain View, CA
Software Engineering Intern 2015

- Developed deep learning models with TensorFlow for retrieving words that are paraphrases of the given definitions.
- Proposed and implemented negative sampling methods using linguistic resources to better distinguish closely related words from each other.
- Demonstrated how appropriate combinations of model choices and negative samplers improve the model accuracy.

Speech and Dialog Research Group, Microsoft Research Mountain View, CA
Research Intern 2014

- Bootstrapped classifiers for detecting knowledge base relations in spoken dialog queries in an unsupervised fashion.
- Mined queries from search engine query click logs and automatically label objects of relations using distant supervision from knowledge graphs.
- Inferred query patterns corresponding to each relation using the automatic labels and the nature of query click logs.

Natural Language Processing Laboratory, Tokyo Institute of Technology Yokohama, Japan
Exchange Student 2013

- Experimented on Tweet sentiment analysis using different classifiers and features.
- Applied structural correspondent learning to incorporate unlabeled data to the classifier.

Spoken Language Systems Group, MIT Computer Science & Artificial Intelligence Lab Cambridge, MA
Researcher, Intern 2012

- Designed web interfaces on Amazon Mechanical Turk to collect spoken sentences and their semantic labeling.
- Trained sequence tagging models by implementing features for conditional random fields, resulting in English and Chinese models for categorizing words in speech queries.
- Tested the models via speech-enabled mobile applications for movie, flight, and restaurant recommendation.

Dropbox Inc. San Francisco, CA
Engineering Intern 2011

- Wrote Python scripts to periodically plow the database and analyze the usage pattern of Dropbox users.
- Investigated methods to optimize the data calculation and caching system for the analytics team.
- Implemented bug filtering and email notification system in the error log viewer, making critical errors get fixed faster.

Language of Thought, MIT Department of Linguistics Cambridge, MA
Researcher, Intern 2010

- Designed algorithms to automatically measure formant frequencies of vowels from sound files in order to observe the patterns and constraints of vowels in spoken languages.
- Designed online experiments on Amazon Mechanical Turk to study the constraints on language acquisition.

RECENT PUBLICATIONS

- **Panupong Pasupat**, Percy Liang. “Compositional Semantic Parsing on Semi-Structured Tables.” *Association for Computational Linguistics (ACL)*, 2015.
- **Panupong Pasupat**, Dilek Hakkani-Tür. “Unsupervised Relation Detection Using Automatic Alignment of Query Patterns Extracted from Knowledge Graphs and Query Click Logs.” *Interspeech*, 2015.
- **Panupong Pasupat**, Percy Liang. “Zero-shot entity extraction from web pages.” *Association for Computational Linguistics (ACL)*, 2014.

SKILLS

- **Computer Languages:** Python, Java, JavaScript, C / C++, Visual Basic
- **Languages:** Thai (native speaker), English (fluent), Japanese (intermediate)