

Marek Rei

Education

PhD in University of Cambridge

2009 - 2012 (expected)

In the department of Computer Science, doing research in Natural Language Processing. Writing a thesis about Unsupervised Information Extraction from Biomedical Literature, under the supervision of Prof Ted Briscoe. I am investigating how distributional similarity between words and text fragments can lead to discovery of semantic relations, and how these methods can be applied in tasks such as text mining, entailment detection, parsing and inference.

Mphil in University of Cambridge

2008 - 2009

MPhil in Computer Speech, Text and Internet Technologies. Covered topics such as speech recognition, speech synthesis, parsing, discourse, dialogue systems, machine translation and question answering.

BSc in Tallinn University of Technology

2005 - 2008

Bachelor's Degree in Computer Science from Tallinn University of Technology. Specialised in Network Applications and Logic, graduated *cum laude*.

Experience

Public Relations Manager at BEST - Board of European Students of Technology

September 2007 - July 2008

Organising General Assembly 2008 - an international student congress with representatives from 76 universities. Handled relations with the media, companies and universities and designed various promotional materials. Worked in a core team of 5 people together with over 40 volunteers.

Software Analyst at Webmedia

June 2007 - August 2007

Internship as a software analyst. Worked on developing a self-service system for a mobile service provider, designed and performed usability tests and quality control, wrote specifications and created a prototype for a new user interface.

Project manager at BEST - Board of European Students of Technology

October 2006 - May 2007

Main organiser of Key to the Future 2007, a career project for graduates in Estonia. Managed a team of 5 people and many volunteers.

Software Developer at Movies.ee

June 2006 - April 2007

Developed a custom-built CMS for managing movies, actors, news, galleries, contests and live cinema timetables.

Software Developer at Geomedia

February 2006 - June 2006

Developed software for conducting large-scale population surveys.

Publications

Conference Proceedings

Unsupervised Entailment Detection between Dependency Graph Fragments.

Marek Rei and Ted Briscoe.

In Proceedings of the 2011 Workshop on Biomedical Natural Language Processing, 2011.

Combining Manual Rules and Supervised Learning for Hedge Cue and Scope Detection.

Marek Rei and Ted Briscoe.

The 14th Conference on Natural Language Learning, 2010.

Book Chapters

Intelligent Information Access from Scientific Papers.

Ted Briscoe, Karl Harrison, Andrew Naish-Guzman, Andy Parker, Marek Rei, Advait Siddharthan, David Sinclair, Mark Slater and Rebecca Watson.

Current Challenges in Patent Information Retrieval, edited by Mihai Lupu, Katja Mayer, John Tait and Anthony J. Trippe, 2011.

Programming skills

Main experience: Java, PHP, SQL, C++, C, HTML, CSS, JavaScript

Additional experience: Android, Perl, JSP, Lisp, Prolog, Haskell

Selected Projects

Encode Explorer

An open-source PHP script for displaying and managing files in the web server. It has been downloaded over 24,000 times.

Website: encode-explorer.siineiolekala.net

Slink

An open-source web-based system for creating a private link shortening and link forwarding service.

Website: github.com/marekrei/slink

Tonu

A system for displaying a 3-dimensional talking head with realistic mouth movements, designed to integrate with a speech synthesiser for people with disabled hearing or noisy work environments.

Website: tonu.siineiolekala.net