

# Tomasz Jurczyk

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## EDUCATION

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| <b>Atlanta, GA</b>   | <b>Emory University</b>                 | <b>Fall 2012 – present</b>     |
| <ul style="list-style-type: none"><li>• PhD in Computer Science and Informatics (expected graduation: December 2017)</li><li>• Accepted PhD Thesis Proposal: <i>Improving Question Answering by Bridging Linguistic Structures and Statistical Learning</i>.</li><li>• Faculty Advisor: Dr. Jinho D. Choi.</li></ul>   |   |                                |
| <b>Wroclaw, Poland</b>   | <b>Wroclaw University of Technology</b> | <b>Fall 2006 – Spring 2011</b> |
| <ul style="list-style-type: none"><li>• M.Sc. in Computer Science, Computer Systems And Networks Specialty.</li><li>• M.Sc. dissertation title: <i>Analysis of network delay in streaming services for DSL access technologies</i>.</li><li>• B.S. in Computer Science.</li><li>• Co-creator of the IBM department research group.</li><li>• Creator and administrator of the official forum of Computer Science students.</li></ul> |   |                                |

## EMPLOYMENT

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| <b>Software Engineer Intern</b>   | <b>Yik Yak Inc.</b>  | <b>Summer 2016</b>                 |
| <ul style="list-style-type: none"><li>• Actively participated in development and research aspects of the Machine Intelligence team.</li><li>• Designed and developed a company-wide machine learning and natural language processing framework.</li><li>• Successfully created the pipeline for automatic sentiment analysis on political data during the 2016 presidential election.</li><li>• Engineered the state-of-the-art image caption system to help understand image content uploaded to the platform.</li></ul> |  |                                    |
| <b>Research Scientist</b>   | <b>Emory NLP Lab</b>   | <b>Summer 2015</b>                 |
| <ul style="list-style-type: none"><li>• Worked on machine reading comprehension and bAbI tasks.</li><li>• Presented a multi-field structural approach to tackle reading comprehension tasks as question answering.</li><li>• Implemented and applied a natural language processing and information retrieval based framework.</li></ul>   |  |                                    |
| <b>Software Engineer Intern</b>   | <b>Emory University Center for Language and Information Research</b> | <b>Summers 2013, 2014</b>          |
| <ul style="list-style-type: none"><li>• Redesigned and redeveloped the engine of the Slave Voyages project.</li><li>• Developed an efficient database access optimization with indexing and searching techniques.</li><li>• Designed and deployed a search platform configuration for SOLr.</li></ul>   |  |                                    |
| <b>Software Engineer</b>  | <b>Nokia Siemens Networks</b>  | <b>January 2011 – July 2012</b>    |
| <ul style="list-style-type: none"><li>• Specified, designed and created build systems in make (GNU).</li><li>• Created maintenance scripts for building automation in Bash, Python and PERL.</li><li>• Configured and maintained Continuous Integration tools such as Jenkins and Subversion.</li><li>• Designed and implemented automated testing environments for developers.</li></ul>   |  |                                    |
| <b>Systems Administrator</b>  | <b>Can't Stop Games</b>  | <b>January 2010 – January 2011</b> |
| <ul style="list-style-type: none"><li>• Administered GNU/Linux servers (Debian, Gentoo, CentOS) located worldwide.</li><li>• Installed, configured and maintained developer and production environments.</li><li>• Configured high performance WWW servers (Nginx, Lighttpd), Databases (MySQL Server + Cluster) and load balancers (HAProxy).</li><li>• Deployed main company product to South Korea Market.</li></ul>   |  |                                    |

## TEACHING EXPERIENCE

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### Emory University

Fall 2012 - Present

- Teaching Assistant; course: CS171 - Introduction to Computer Science II (Fall 2012, Spring 2013, Fall 2013).
- Instructor; course CS170 - Introduction to Computer Science I (Spring 2014, Fall 2014).

## TECHNICAL EXPERIENCE

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### Projects

- Reading Comprehension on the *Friends* TV show scripts (2016-2017). Ongoing project that consists of (1) the dataset preparation for reading comprehension and (2) developing an efficient and scalable machine learning and natural language processing approaches for this task. <http://emorynlp.github.io/character-mining/>
- SelQA (2015-2016). Selection-based Question Answering framework for factoid question answering. Dataset publicly available: <https://github.com/emorynlp/question-answering/tree/master/data/selqa>
- RealQA (2014). Android application with Django REST API server supporting real time question answering system. <http://ir.mathcs.emory.edu/projects/realqa/>
- Slave Voyages (2013-2014). Open source project, search engine/platform and web service for the Trans-Atlantic Slave Trade Database. <http://www.slavevoyages.org/>

### Languages and Technologies

- SpaCy, NLP4J, StanfordNLP, Natural Language Toolkit (NLTK), Elastic, Scikit-learn, Keras, Tensor Flow, Theano.
- Python, Java, C/C++, Django, LUA, Bash, Perl, make (GNU), Linux.

### Publications

- **Tomasz Jurczyk**, Amit Ajit Deshmane, Jinho D. Choi. *Analysis of Wikipedia-based Corpora for Question Answering*. Submitted to LREC'2017.
- **Tomasz Jurczyk**, Jinho D. Choi. *Cross-domain Document Retrieval: Matching between Conversational and Formal Writings*. In proceedings of the Building Linguistically Generalizable NLP Systems Workshop, BLGNLP 2017 (during EMNLP 2017), Copenhagen, Denmark, 2017.
- **Tomasz Jurczyk**, Michael Zhai, Jinho D. Choi. *SelQA - A New Benchmark for Selection-based Question Answering*. In Proceedings of the 28th International Conference on Tools with Artificial Intelligence, ICTAI'16, San Jose, CA, 2016.
- **Tomasz Jurczyk**, Jinho D. Choi. *Multi-Field Structural Decomposition for Question Answering*. *arXiv preprint arXiv:1604.00938* (2016).
- **Tomasz Jurczyk**, Jinho D. Choi. *Semantics-based Graph Approach to Complex Question-Answering*. In Proceedings of the NAACL Student Research Workshop, NAACL-SRW'15, Denver, CO, 2015
- Qiaoling Liu, **Tomasz Jurczyk**, Jinho D. Choi, and Eugene Agichtein. *Real-Time Community Question Answering: Exploring Content Recommendation and User Notification Strategies*. In Proceedings of the 2015 International Conference on Intelligent User Interfaces, IUI '15, ACM, New York, NY, 2015.