

# Shamil Chollampatt

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RESEARCH INTERESTS	General Areas: Natural language processing, machine learning, and deep neural networks. Topics: Grammatical error correction, text scoring, machine translation, information retrieval, and question answering.	
EDUCATION	<b>National University of Singapore</b>	<i>Singapore</i>
	Doctor of Philosophy (Ph.D.)	August 2014 – Present
	Thesis Title: Translation Models for Grammatical Error Correction	
	Advisor: Prof. Ng Hwee Tou GPA: 4.3/5	
WORK EXPERIENCE	<b>National Institute of Technology Calicut</b>	<i>Calicut, India</i>
	Bachelor of Technology (B.Tech)	July 2009 – April 2013
	Computer Science and Engineering GPA: 9.0/10 (Major GPA: 9.4/10)	
	<b>Research Assistant</b>	August 2018 – Present
WORK EXPERIENCE	Department of Computer Science, School of Computing, National University of Singapore	
	– Working on cross-lingual information extraction and question answering. – Working on deep learning models for grammatical error correction.	
	<b>Graduate Assistant (Research)</b>	January 2015 – May 2015
	National University of Singapore – Supervised a final year project on the non-word spelling correction.	
WORK EXPERIENCE	<b>Software Engineer</b>	June 2013 – June 2014
	Business Intelligence Division, Server Technologies Group Oracle, Bengaluru, India	
	– Worked on the real-time decision product suite that help business make artificial intelligence (AI) assisted real-time decisions based on predictive modelling based on previous data.	
TEACHING EXPERIENCE	<b>National University of Singapore</b>	<i>Singapore</i>
	<b>Graduate Assistant (Teaching)</b>	August 2016 - December 2016
	CS1020 - Data Structures and Algorithms Module Coordinator: Prof. Tan Sun Teck	
	<b>Graduate Assistant (Teaching)</b>	August 2015 - December 2015
TEACHING EXPERIENCE	CS1020E - Data Structures and Algorithms Module Coordinator: Prof. Tan Sun Teck	
	<b>Graduate Assistant (Teaching)</b>	August 2014 - December 2014
	CS1020 - Data Structures and Algorithms Module Coordinator: Prof. Tan Sun Teck	

## PUBLICATIONS

- **Shamil Chollampatt** and Hwee Tou Ng. 2018. Neural quality estimation of grammatical error correction. In *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP 2018)*, Brussels, Belgium.
- **Shamil Chollampatt** and Hwee Tou Ng. 2018. A reassessment of reference-based grammatical error correction metrics. In *Proceedings of the 27th International Conference on Computational Linguistics (COLING 2018)*, Santa Fe, New Mexico, USA.
- **Shamil Chollampatt** and Hwee Tou Ng. 2018. A multilayer convolutional encoder-decoder neural network for grammatical error correction. In *Proceedings of the 32nd AAAI Conference on Artificial Intelligence (AAAI 2018)*, New Orleans, Louisiana, USA.
- **Shamil Chollampatt** and Hwee Tou Ng. 2017. Connecting the dots: Towards human-level grammatical error correction. In *Proceedings of the 12th Workshop on Innovative Use of NLP for Building Educational Applications (BEA 2017)*, Copenhagen, Denmark.
- **Shamil Chollampatt**, Duc Tam Hoang, Hwee Tou Ng. 2016. Adapting grammatical error correction based on the native language of writers with neural network joint models. In *Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing (EMNLP 2016)*, Austin, Texas, USA.
- **Shamil Chollampatt**, Kaveh Taghipour, Hwee Tou Ng. 2016. Neural network translation models for grammatical error correction. In *Proceedings of the 25th International Joint Conference on Artificial Intelligence (IJCAI 2016)*, New York, USA.
- Duc Tam Hoang, **Shamil Chollampatt**, Hwee Tou Ng. 2016. Exploiting n-best hypotheses to improve an SMT approach to grammatical error correction. In *Proceedings of the 25th International Joint Conference on Artificial Intelligence (IJCAI 2016)*, New York, USA.

## OTHER ACADEMIC PROJECTS

**Actively Learned Music Track Recommendation System** December 2011

- *Advisors* : Bhiksha Raj and Rita Singh, Carnegie Mellon University, Pittsburgh, USA
- Implemented a personalized song recommendation system. The audio signals of tracks were modeled using a GMM-UBM (Gaussian Mixture Model-Universal Background Model) and the recommender was an actively learned SVM updated via user-feedback.

### Experimental Operating System

<http://xosnitc.github.com>

January 2012 – February 2013

- *Advisor* : Murali Krishnan, National Institute of Technology Calicut, India
- Designed, implemented, and documented an instructional toy operating system. It was deployed as part of undergraduate coursework at National Institute of Technology (NIT) Calicut and Indian Institute of Technology (IIT) Palakkad.

## AWARDS AND ACHIEVEMENTS

- **Dean's Graduate Research Excellence Award**, School of Computing, National University of Singapore, 2018.  
Awarded to select senior computing PhD candidates who “made significant research achievements during their PhD study” and “produced strong evidence of sustained research achievement”.
- **Research Achievement Award**, School of Computing, National University of Singapore, 2016.  
Awarded to PhD students “who have achieved outstanding research performance” in a year.
- (NUS Graduate School for Integrative Sciences and Engineering, 2014–2018.  
NGS scholarship is a prestigious scholarship “awarded to talented students with an aptitude for innovative, high calibre PhD research”.
- All-India 29<sup>th</sup> Rank (99.98<sup>th</sup> percentile) in the Graduate Aptitude Test for Engineering (GATE), 2014 for computer science and engineering.

INVITED TALKS	<p><b>Correcting Language Errors using Machine Translation Techniques</b></p> <ul style="list-style-type: none"> <li>– Workshop on Technology Enhanced Learning, 9th Global Wordnet Conference (GWC 2018). Singapore. January, 2018.</li> <li>– NUS School of Computing Research Talk. NUS. March 2018.</li> </ul>
SERVICE	<ul style="list-style-type: none"> <li>• Reviewer: ACL 2018.</li> <li>• Program Committee (PC): ACL 2017, IJCNLP 2017, BEA Workshops 2017, 2018, AAAI 2018, 2019; NAACL 2018.</li> </ul>
AFFILIATIONS/ VOLUNTEER ACTIVITIES	<ul style="list-style-type: none"> <li>• Member, Association of Computational Linguistics, 2016-2017</li> <li>• Vice Chair, ACM Student Chapter, National Institute of Technology Calicut, 2013</li> <li>• Lead Organizer, FOSSMeet 2010, 2011 and 2013 at National Institute of Technology Calicut.</li> </ul>
SKILLS	<ul style="list-style-type: none"> <li>• <i>Programming</i>: Python, C/C++, Java, PHP, HTML/CSS, Bash, MATLAB</li> <li>• <i>Libraries/Toolkits</i>: PyTorch, Theano, Moses, scikit-learn, OpenNLP, Weka, LIBSVM, SVM<sup>light</sup></li> <li>• <i>Web APIs</i>: Google Plus, Facebook API</li> <li>• <i>Tools</i>: Git, L<sup>A</sup>T<sub>E</sub>X</li> </ul>