

## Resume: Khoi-Nguyen Tran

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OBJECTIVE	To apply my research skills in industry by developing practical AI solutions for business.	
RESEARCH INTERESTS	Data Science, Machine Learning, Deep Learning, Text Mining, AI for Business, Cyber-security.	
EMPLOYMENT	<b>IBM Research Australia</b> <ul style="list-style-type: none"><li>• Research Scientist. Cognitive Analytics. 2018 – Current<ul style="list-style-type: none"><li>– Leading research into understanding patents using text mining and machine learning. Managing and coordinating research tasks amongst 5 people from 3 teams with mixed development in R, Python, Spark, and React.</li><li>– Led development and managed a team with another researcher and 2 software engineers to build end-to-end machine learning and chatbot proof-of-concept pipelines for financial services clients.</li><li>– Outstanding Technical Achievement Award (OTAA) for work into “Deep Learning Representations for Documents”.</li><li>– 3 publications under review. 3 patents filed. 9 defensive patent publications.</li></ul></li><li>• Postdoctoral Research Scientist. Cognitive Analytics. 2016 – 2018<ul style="list-style-type: none"><li>– Led development of document chunking and end-to-end machine learning solutions for Watson Education. Document chunking is now one of the core features of an IBM offer (C3 – <a href="http://microsite-us.mybluemix.net/">http://microsite-us.mybluemix.net/</a>).</li><li>– Identified problems with Watson Education’s inherited research assets and developed solutions meeting their production needs of high prediction scores, parallelization, and micro-service APIs.</li><li>– 2 publications. 2 patents filed. 3 defensive patent publications.</li></ul></li></ul> <b>Australian Federal Government</b> <ul style="list-style-type: none"><li>• Data Scientist. Research and Development Team. 2015 – 2016<ul style="list-style-type: none"><li>– Developed modelling, profiling, and text analytics solutions for analysts in R and SQL.</li></ul></li></ul> <b>Australian National University</b> <ul style="list-style-type: none"><li>• Research Assistant &amp; Co-founder. Cybercrime Observatory. 2013 – 2015<ul style="list-style-type: none"><li>– Led research into machine learning techniques to detect malicious content (attachments or URLs) using only email text.</li><li>– 1 publication.</li></ul></li><li>• Research Assistant. Research School of Computer Science. 2011 – 2015<ul style="list-style-type: none"><li>– 3 main projects with a publication for each.</li></ul></li></ul>	
EDUCATION	<b>Australian National University</b> <ul style="list-style-type: none"><li>• Ph.D. in Engineering and Computer Science. 2010 – 2015<ul style="list-style-type: none"><li>– Thesis Title: <i>Detecting Vandalism on Wikipedia across Multiple Languages</i>.</li><li>– 5 publications, all contributing to thesis.</li></ul></li><li>• Bachelor of Computer Science, with First Class Honors. 2006 – 2009<ul style="list-style-type: none"><li>– 5 publications (from honors thesis and individual research projects).</li></ul></li></ul>	
REFERENCES	Available upon request.	
PUBLICATION METRICS	From Google Scholar (May 13): 288 citations, h-index: 8, i10-index: 7. <a href="http://scholar.google.com.au/citations?user=ihFcT5QAAAAJ">http://scholar.google.com.au/citations?user=ihFcT5QAAAAJ</a>	