



# KNT

## KHOI-NGUYEN TRAN

POSTDOCTORAL RESEARCHER | KHNDTRAN@AU1.IBM.COM

## OBJECTIVE

To develop and apply my research skills in industry by creating innovative solutions for business problems with real-world impact.

## SKILLS

Applying research to business problems  
Delivering demos  
Front-end and back-end web programming  
Communicating complex ideas to diverse audiences

Data science  
Machine learning  
Text mining  
Natural Language Processing  
Knowledge Discovery and Data Mining

## I HAVE USED

IBM Cloud (Bluemix)  
GitHub, ZenHub  
Scikit-learn, Tensorflow  
Java, Python, R, MySQL  
HTML, JavaScript, JQuery, Flask  
LaTeX, Overleaf  
CrowdFlower  
Docker, Kubernetes  
NLTK, Stanford NLP

## EXPERIENCE

### POSTDOCTORAL RESEARCHER • IBM RESEARCH • SINCE 2016

Developed novel research approaches for document chunking and learning objective generation. Currently exploring machine learning approaches for the Education Library to improve alignment of content to learning standards. Publications under review.

### DATA SCIENTIST • AUSTRALIAN FEDERAL GOVERNMENT • 2015 - 2016

Worked on sensitive and classified projects.

### RESEARCH ASSISTANT • AUSTRALIAN NATIONAL UNIVERSITY • 2011 - 2015

Co-founded the ANU Cybercrime Observatory. Research into detecting malicious spam emails. Publication in AusDM.

Developed a Facebook app to collect user data for research into collaborative filtering for recommendation. Publication in WWW.

## EDUCATION

### PH.D. COMPUTER SCIENCE • 2015 • AUSTRALIAN NATIONAL UNIVERSITY

Developed novel machine learning features and methodologies to detect vandalism across five languages on Wikipedia based on metadata and text data. Publications in TKDE, PAKDD, CIKM, AusDM, and JDIQ.

### B. COMPUTER SCIENCE • 2009 • AUSTRALIAN NATIONAL UNIVERSITY

First Class Honours. Taught computer science and data science courses and completed research projects on sensor ontology and data science.

## VOLUNTEER EXPERIENCE OR LEADERSHIP

President (2011-2012) and volunteer (2007-2010) for the ANU Computer Science Students' Association.

Delegate for the inaugural Australian Vietnamese Young Leadership Dialogue (2017).