

CONTACT

<http://tq0100r.github.io/>

TQ0100R@gmail.com

WORK EXPERIENCE

I have 11 years research and project development experience in the realm of media, Internet services, finance and healthcare. My computational thinking mindset, prototyping skills and product experience enable me to identify data-driven business opportunities and deliver impact-oriented solutions in both start-up and enterprise environments.

Kaplan

Sydney, Australia

Advanced NLP Specialist

05/2017 – Present

I am optimising a ML-based compliance system [Artemis](#) in financial sector. My work consists of three parts: apply active learning and other pragmatic methods to improve data annotation; boost system speed and scalability with mature cloud computing services; co-develop an in-house textual data anonymisation system to meet the privacy protection regulations.

Hugo AI

Sydney, Australia

Senior Data Scientist

03/2016 – 03/2017

I lead the design and development for automatic user profile summarisation. The work features data crawling, cleaning, reconciliation and natural language generation from various social media sources. The deliverables facilitate online recruiters for more effective and efficient talent acquisitions.

IBM Research Australia

Melbourne, Australia

Research Scientist

04/2014 – 03/2016

I am responsible for developing and evaluating social media text analytics, including a text-based [geotagger](#), [Social Media Analytics in Real Time](#) and a biomedical [named entity recogniser](#). These text analytics aim to enhance IBM [Watson](#) in dealing with domain specific tasks. They combine advanced NLP techniques in an adapted big data processing framework. The deliverables have been successfully applied in many client engaged projects such as Australian Open.

University of Melbourne/NICTA

Melbourne, Australia

PhD Researcher

07/2010 – 03/2014

I am working on applying NLP/ML methods to improve the utility of social media for downstream text mining applications.

Research Assistant

07/2011 – 01/2012

I am a contributor for an [IBES](#) project: “Early detection and mitigation of disastrous events with broadband-enabled social interaction technologies”.

Microsoft Research Asia

Beijing, China

Full-time Research Intern

09/2009 – 06/2010

I helped to build an English writing assistant prototype which has been shipped as the dictionary tab in [Bing Search](#) in China. My responsibility includes bilingual text mining, short sentence categorisation, incremental bilingual text crawling.

Full-time Research Intern

01/2007 – 08/2007

I helped to improve web corpus quality for various research projects and built an internal question and answer community.

EDUCATION

University of Melbourne

Melbourne, Australia

Doctor of Philosophy

07/2010 – 04/2014

Dalian University of Technology

Dalian, China

Bachelor and Master of Engineering

09/2003 – 12/2009

PROFESSIONAL SKILLS

- Frontend: HTML, CSS, Javascript (e.g., JQuery)
- Languages: Python, R, bash scripts, Java, C#, C/C++
- Modelling: scikit-learn, spaCy, word2vec/fasttext, Keras (TensorFlow)
- Backend: MySQL, Postgres, MongoDB, Redis, Memcached
- Cloud: popular AWS services such as EC2, Lambda, S3 and CloudWatch
- Infrastructure: JIRA, Git, Jenkins/Bamboo, Ansible

PUBLICATIONS & PATENTS

I am actively involved in professional activities including publishing research and demo papers; giving invited talks in universities (Sydney University, RMIT, Tianjin University, Saarland University, TU Darmstadt) and industrial institutions (DFKI, CMCRC); being reviewers in top-tier conferences and journals (e.g., ACL, EMNLP, NAACL, COLING, NLE); co-organising two international workshops on social media analytics ([W-NUT 2015](#) and [W-NUT 2016](#)). I maintain a full list of my publications in [Google Scholar](#) and I sometimes also open sourced my projects on [GitHub](#).

US Patent: Dynamic modelling of geospatial words in social media (US 9405743 B1)

Bo Han, Will Radford, Anas Cadilhac, Art Harol, Andrew Chisholm, Ben Hachey, “Post-edit Analysis of Collective Biography Generation”, in WWW 2017, Perth, Australia.

Bo Han, Afshin Rahimi, Leon Derczynski and Timothy Baldwin, “Twitter Geolocation Prediction Shared Task”, in 2nd W-NUT 2016, 213–217, Osaka, Japan

Bo Han, Paul Cook and Timothy Baldwin, “Text-based Twitter User Geolocation Prediction”, In *Journal of Artificial Intelligence Research*, 49, pp. 451–500, 2014. **(150+ citations)**

Spandana Gella, Paul Cook and Bo Han, “Unsupervised Word Usage Similarity in Social Media Texts”, in *SEM2013, 248–253, Atlanta, GA, USA. **(Best short paper)**

Bo Han, Paul Cook and Timothy Baldwin, “A Stacking-based Approach to Twitter User Geolocation Prediction”, In *ACL 2013*, Demo Session, pp. 7–12, Sofia, Bulgaria, 2013.

Bo Han, Paul Cook and Timothy Baldwin, “Lexical Normalisation of Short Text Messages”, In *ACM Transactions on Intelligent Systems and Technology* 4(1), pp. 5:1–5:27, 2013.

Bo Han, Paul Cook and Timothy Baldwin, “Geolocation Prediction in Social Media Data by Finding Location Indicative Words”, In *COLING 2012*, 1045–1062, Mumbai, India.

Bo Han, Paul Cook and Timothy Baldwin, “Automatically Constructing a Normalisation Dictionary for Microblogs”, In *Proceedings of EMNLP 2012*, 421–432, Jeju, South Korea, 2012. **(130+ citations)**

Bo Han and Timothy Baldwin, “Lexical normalisation of short text messages: Makn sens a #twitter”, In *ACL 2011*, 368–378, Portland, OR, USA, 2011. **(400+ citations)**

Xiaohua Liu, Bo Han, Kuan Li, Stephan Hyeonjun Stiller, and Ming Zhou, “SRL-based verb selection for ESL”, In *EMNLP 2010*, 1068–1076, Cambridge, MA, USA, 2010.

REFEREES

Timothy Baldwin

Professor/ARC future fellow
University of Melbourne

Ming Zhou

Vice President
Microsoft Research Asia

Jennifer Lai

Executive Architect
IBM Research/Watson