

# Résumé

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## Objective

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Apply 12+ years of research and commercialisation experience to develop and improve state-of-the art machine-learning research algorithms and turn them into useful, reusable code that can make life easier for researchers, engineers, and the wider public.

## Personal Particulars

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**Name** Dr David Brendan DEAN [dbdean.com](http://dbdean.com)  
**Address** 379 Milton Rd, Auchenflower, Queensland, Australia  
(willing to relocate internationally or work remotely)  
**Telephone** +61 407 151 912  
**Email** [ddean@ieee.org](mailto:ddean@ieee.org)

## Work Experience

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<b>University of QLD</b>	<i>February 2017 to present</i>	<a href="http://uq.edu.au">uq.edu.au</a>
<i>Lecturer in Data Science</i>	Contribute to the training of data scientists who can tackle real-world problems in business, government and science.	
<b>Wink Health</b>	<i>September 2016 to January 2017</i>	<a href="http://winkhealth.com">winkhealth.com</a>
<i>Employee #1, Data Scientist</i>	Research, implementation, and integration of signal processing and machine learning algorithms into production systems for the detection of abnormal sleep patterns from smart-phone applications. <ul style="list-style-type: none"><li>• Developing an evaluation framework, and designing and deploying an associated distributed processing Docker-based AWS cluster to evaluate signal processing and machine-learning algorithms for abnormal sleep detection.</li><li>• Integration of signal processing and machine-learning techniques into production API for use in customer-facing applications.</li></ul>	
<b>Queensland University of Technology</b>	<i>February 2004 to present</i>	<a href="http://qut.edu.au/research/saivt">qut.edu.au/research/saivt</a>
<i>Visiting Senior Research Fellow</i>	Senior machine learning researcher at the Speech, Audio, Image and Video Technology (SAIVT) Laboratory	
<i>Senior Research Fellow (prior to July 2016)</i>	Supervision of PhD students and junior post-docs and conducting novel research over a wide range of ARC, CRC and industry supported research areas, including: <ul style="list-style-type: none"><li>• Developing novel techniques for and commercial implementation of speaker diarisation across court recordings (government and industry funded)</li><li>• Improving the performance of speaker recognition approaches in short and mismatched enrolment and verification conditions (gov. and industry funded)</li><li>• Organising the collection of real-world databases for the evaluation and development of audio and/or visual speech processing algorithms (gov. funded)</li></ul>	
<i>Research Fellow (prior to 2014)</i>		
<i>Selected Industry and Academic Research Partners</i>	AutoCRC ▪ Smart Services CRC ▪ ValidVoice ▪ NSSTC/DST ▪ Auscript ▪ For The Record ▪ University of Avignon ▪ Radboud University ▪ Universidad Autónoma de Madrid ▪ DevAudio	
<b>Clockwork Computing</b>	<i>May 1999 to February 2004</i>	

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## Academic

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<b>Queensland University of Technology</b>	<i>Feb 1999 to present (visiting since July 2016)</i>
<i>Publications</i>	558 citations across 70+ publications, with 19 publications having more than 10 citations, and a h-index of 13. Full list available at <a href="http://bit.ly/ddscholar">bit.ly/ddscholar</a> .
<i>Publication Venues</i>	Speech Communication • Computer Speech and Language • IEEE Transactions on Audio, Speech and Language Processing • International Conference on Acoustics Speech and Signal Processing (ICASSP) • Interspeech • Auditory-Visual Speech Processing (AVSP)
<i>PhD Supervision</i>	Visual Recognition of Human Behaviour in Noisy Environments <i>Rajitha Navarathna (2009–2013)</i> Robust Automatic Speaker Linking and Attribution <i>Houman Ghaemmaghami (2010–2013)</i> Speaker Recognition Using I-Vector Features <i>Ahllan Kanagasundaram (2010–2014)</i> Improving Spoken Term Detection Using Complementary Information <i>Shahram Kalantari (2011–2015)</i> Domain Adaptation for Speaker Attribution <i>MD Hafizur Rahman (2014–2017)</i> Speaker Recognition in High Noise Environments <i>Ahmed Kamil (2014–2017)</i> Multimodal Emotional Recognition Using Deep Learning <i>Dung Nyugen Tien (2015–2018)</i>
<i>Doctor of Philosophy</i>	<i>February 2004 to March 2008</i> Synchronous HMMs for Audio-Visual Speech Processing
<i>Bachelor of Information Technology (with Distinction)</i>	<i>February 1999 to November 2003</i>
<i>Bachelor of Engineering – Electronics (First Class Honours)</i>	GPA of 6.425 (on a 1 to 7 scale, 7 being highest) High Distinction or Distinction in 85% of subjects

## Professional

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<b>Memberships</b>	IEEE • ISCA • ASSTA • OSMF
<b>Technical Review Committees</b>	Interspeech • ICASSP • SST • Speaker Odyssey • IEEE Transactions on Multimedia • IEEE Transactions on Audio, Speech and Language Processing • Computer Speech and Language • Speech Communication
<b>Invited Speaker</b>	SLAM 2015 (keynote) • Biometrics Institute • Auto CRC • Smart Services CRC

## Technical Experience

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<i>Research</i>	Audio-visual speech • Speaker recognition • Speaker diarisation • Speech activity detection • Image processing • Reproducible research code • Releasing research databases
<i>Software Engineering/DevOps</i>	Project Managment • Research Commercialisation • C/C++ • Python • Shell • MATLAB/Octave • Javascript • HTK • Git • Django • PostgreSQL • MySQL • Docker • Linux • Amazon Web Services • Grid Engine/PBS