

# ANDY NGUYEN



PhD Researcher

BCom(Hons), BBIM



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Andy's area of research interest bridges learning sciences, design sciences, and data analytics. Special interests are: Learning Analytics; Learning Design; e-Learning Innovation; Next Generation Digital Learning Environment (NGDLE) and Design Sciences Research (DSR).



## ACADEMIC EXPERIENCE

03/2017 - Present

Auckland  
New Zealand

### Graduate Teaching Assistant (GTA)

The University of Auckland

- Tutoring and marking for:
  - BUSAN301: **Data Visualisation**
  - INFOMGMT392: **Data Visualisation**
  - INFOSYS321: **Enterprise Systems**
- Constructing lab materials and facilitating lab sessions for teaching **Tableau skills** in Data Visualisation course.

03/2016 – Present

Auckland  
New Zealand

### Postgraduate Marker

The Mind Lab

- Mark student assessments as requested by the Postgraduate Directors & Postgrad team

11/2015 – 11/2016

Auckland  
New Zealand

### Research Assistant (RA)

The University of Auckland

03/2014 – 07/2014

Auckland  
New Zealand

### Teaching Assistant (TA)

The University of Auckland

- Online tutoring for INFOMGT392 Semester 1 2014; Responsible for teaching e-CV.
- Applied new technologies such as text-to-speech.
- Good feedback from students.



## INDUSTRIAL EXPERIENCE

06/2018 - 03/2019

Auckland New  
Zealand

### Consultant

3i Innovation

- Development Projects for:
  - **Salesforce** platform
  - Business **data analytics**

11/2013 – 02/2015

Auckland New  
Zealand

### Business Analyst

3i Innovation

- Analysed current business processes.
- Designed & Built CRM system on Salesforce Platform.
- Designed & Developed applicable websites with CMS.

11/2012 – 12/2012

Ho Chi Minh  
Vietnam

### IT Technical Assistant

Vietnam Logistics Institute (VLI)

12/2012 – 01/2013

Ho Chi Minh  
Vietnam

### ERP Project Trainee

PNJ

11/2011 – 01/2012

Ho Chi Minh  
Vietnam

### Financial Trainee

HLHV JOCS



## EDUCATION

03/2016 - Present

Auckland,  
New Zealand

### PhD Researcher

The University of Auckland

- Achieved **Doctoral Scholarship** offered by the University of Auckland.
- **Research topic:** Learning Analytics in Higher Education – Improving Teaching and Learning by Data Analytics.
- **Research interests:** Design science research; Educational technology; Data analytics; Learning Analytics.
- Research has been published in A-ranked journals and conferences.

02/2015 – 02/2016

Auckland,  
New Zealand

### Bcom(Hons)

The University of Auckland

- Specialised in **Information System**.
- **First Class Honour** with **8.0/9.0** Grade Point Average (**GPA**).

- **Dissertation title:** Eye-tracking: A Cost-Effective Workstation for Usability Studies.
- Research presented at an academic conference.

02/2011 – 11/2013

Auckland,  
New Zealand

### Bachelor of Business and Information Management (BBIM)

The University of Auckland

- Specialised in Information Management and Accounting.
- Achieved **Honour Rolls** (digital certificates are available) for: Data Mining and Decision Support; Database Applications; Introduction to Web Development

06/2009 – 11/2010

Auckland,  
New Zealand

### Cambridge Assessment International Education (CIE)

ACG Parnell College

- A-level: Maths (A) Physics (A) Chemistry (B)
- GCSEs: Maths (A) Physics (A) Chemistry (A)

## PUBLICATIONS

### JOURNAL PAPERS

- Nguyen, A., Gardner, L., & Sheridan, D. (2018). A framework for applying learning analytics in serious games for people with intellectual disabilities. *British Journal of Educational Technology*, 49(4), 673-689. <https://doi.org/10.1111/bjet.12625>
- Nguyen, A., Gardner, L., & Sheridan, D. (Accepted). A Systematic Review of Data Analytics in Higher Education: An Integrated and Holistic View. *Journal of Information Systems Education*.
- Nguyen, A., Tuunanen, T., & Gardner, L. (Under Review). Design Principles for Learning Analytics Information Systems in Higher Education. *European Journal of Information Systems*.

### CONFERENCE PAPERS

- Nguyen, A., Gardner, L., & Sheridan, D. (2019). Towards Ontology-based Design Science Research for knowledge accumulation and evolution. In *Proceedings of Hawaii International Conference on System Sciences (HICSS)*.
- Nguyen, A., Gardner, L., & Sheridan, D. (2018). Data Analytics in Higher Education: A Case Study. In *Proceedings of International Conference on Computers and Industrial Engineering (CIE)*.
- Nguyen, A., Gardner, L., & Sheridan, D. (2018). Learning Analytics to Inform Transformative Teaching, Learning and Support. In *Proceedings of Conference of the New Zealand Association for Research in Education (NZARE)*
- Nguyen, A., Gardner, L., & Sheridan, D. (2018). Building an ontology of learning analytics. In *Pacific Asia conference on information systems (PACIS)*. Retrieved from <http://aisel.aisnet.org/pacis2018>
- Nguyen, A., Gardner, L., & Sheridan, D. (2018). Learning Analytics in Higher Education - Improving Teaching and Learning by Data Analytics. Presented at *New Zealand Information Systems Doctoral Consortium (NZISDC) 2018*. Auckland, New Zealand.
- Nguyen, A., Gardner, L., & Sheridan, D. (2017). A multi-layered taxonomy of learning analytics applications. In *Pacific Asia conference on information systems (PACIS)*. Retrieved from <http://aisel.aisnet.org/pacis2017>
- Gardner, L., Nguyen, A., & Sheridan, D. (2016). Curriculum mapping: An automated solution. In *Proceedings of EdMedia: World Conference on Educational Media and Technology 2016*, 319-324. Vancouver, Canada. Retrieved from <https://www.learnlib.org/p/172970/>
- Nguyen, A., & Sheridan, D. (2016). Curriculum mapping: An automated solution. In *Proceedings of EdMedia: World Conference on Educational Media and Technology 2016*, 319-324. Vancouver, Canada. Retrieved from <https://www.learnlib.org/p/172970/>
- Nguyen, A., Gardner, L., & Sheridan, D. (2016). A Conceptual Model of Intelligent Learning System Towards the Future of Educational Ecosystems. Presented at *Workshop on Information Technologies and Systems (WITS) 2016*, Dublin, Ireland.

## PAPER REVIEWS

### BRITISH JOURNAL OF EDUCATIONAL TECHNOLOGY (BJET)

- ICT-Supported Learning for the Inclusion of Students in Developing Countries: Avicenna Virtual Campus.
- Towards the Successful Integration of e-Learning Systems in Iraq

### INTERNATIONAL CONFERENCE ON INFORMATION SYSTEMS (ICIS) 2017

- Design Principles for Building Social Media Enabled Collaborative Learning Environments (SMECL Es)
- Determining the Required Number of Assessors when Using Peer Assessment in Large-Scale Lectures
- Differential Effects of Instructor Feedback and Computerized Feedback in Online Learning
- Digital Literacy and Self-regulated Learning: Exploration of Reciprocal Relationships with Longitudinal Data

### AUSTRALASIAN CONFERENCE ON INFORMATION SYSTEMS (ACIS) 2017

- The Impact of Big Data to Scenario Planning in Organizations

### INTERNATIONAL CONFERENCE ON COMPUTERS AND INDUSTRIAL ENGINEERING (CIE) 2018

- A Dynamic Agent-Based Modelling Simulation to Investigate Failure of Km Implementation in Developing Enterprises (A Case Study of Km Implementation Failure in One of the Iranian Oil Drilling Offshore Companies)

### PACIFIC ASIA CONFERENCE ON INFORMATION SYSTEMS (PACIS) (PACIS) 2019

- Towards an Integrative View on Design Science Research Genres, Strategies and Pivotal Concepts
- Native Advertising by Design: A Dual Tunnel (x+y) Model
- Utilizing Willing-to-buy/sell prices in Trading price Prediction: Evidence from the Steam Community Market

## REFERENCES

**Don Sheridan, PhD, CITP**  
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University of Auckland Business School  
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University of Auckland Business School  
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