

# Sunil Aryal, PhD

Lecturer (full-time continuing since Jan 2019)  
School of IT, Faculty of Science, Engineering & Built Environment  
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## Summary

- Nine years of teaching experience: 6 years in UG and PG levels (Australia) and 3 years in high school (Nepal)
- Investigator in research grants totalling in excess of AUD 1.9 million.
- Masters by Research and PhD in Computer Science - 25+ publications, most of them in CORE A\*/A ranked venues
- Four years of industry experience: 2 years in software development and 2 years in applied machine learning
- Supervised 6 final year capstone projects & 8 master's major/minor theses, currently supervising 2 PhD theses
- Nominated by students for the Faculty of IT Teaching Award at Monash University, Clayton School of IT (2015)
- Received Dean's Award for Outstanding Academic Achievement by University of Southern Queensland (USQ) and ISACA Prize by Information Systems Audit and Control Association (ISACA) Brisbane Chapter.

## Teaching

Programming, Data Structure and Algorithm, Data Mining, Machine Learning, IT Placement, Research & Development in IT, Professional Skills in IT, Capstone Projects

## Research Interests

Data Mining and Machine Learning — Practical and Robust Data Mining, Similarity Measures, Classification, Clustering, Anomaly Detection, Ensemble-based and Random Methods, Learning from small subsamples of data, Explainable AI, Autonomous Systems, and Health Informatics

## Appointments Held

2016-2019	Lecturer (full-time), Federation University, Mt Helen, Australia
2013-2016	Lecturer (sessional), ATMC (Federation University), Melbourne, Australia
2014-2015	Data Engineer (part-time), Gyde Inc., Melbourne, Australia
2014-2015	Teaching Associate (sessional), Monash University, Clayton, Australia
2014-2015	Research Assistant (casual), Federation University, Churchill, Australia
2013-2013	Software Developer (casual), Monash University, Clayton, Australia
2012-2013	Research Assistant (casual), Monash University, Churchill, Australia
2009-2010	Research Student (full-time), Katholieke University, Leuven, Belgium
2008-2009	Software Developer (full-time), Ingenico Asia Pacific International, Warriewood, Australia
2006-2006	IT Officer (full-time), Nepal Bank Limited, Damauli, Nepal
2002-2005	Computer Teacher (full-time), Kathmandu Don Bosco Higher Secondary School, Kathmandu, Nepal

## Education

2020	GRADUATE CERTIFICATE IN HIGHER EDUCATION LEARNING & TEACHING, Deakin University, Australia
2017	PhD, Monash University, Australia
2012	MIT(Research), Monash University, Australia
2008	MIT(Coursework), University of Southern Queensland, Australia
2005	BIT, Purbanchal University, Nepal

## Publications

The list of my academic publications are available in my [Google Scholar](#) and [DBLP](#) pages.

## Grants, Honours & Awards

2020	Basic Science Research grant (Principal Investigator) - USD 100,000 ( $\approx$ AUD 140,000), funded by the Air Force Office of Scientific Research (AFOSR) Asian Office of Aerospace Research and Development (AOARD) and Office of Naval Research (ONR) Global, USA
2020	AFOSR-DST Australia Autonomy Initiative grant (Co-Investigator) - AUD 373,199, funded by the Air Force Office of Scientific Research (AFOSR) and Defence Science Technology (DST) Group Australia
2020	Operation Research Network (ORNet) grant (Co-Investigator) - AUD 97,000, funded by Defence Science Technology (DST) Group Australia
2020	Defence Science Institute (DSI) AI for decision making initiative grant (Principal Investigator) - AUD 20,000, funded by the Office of National Intelligence (ONI) Australia
2020	Peer-Reviewed ECR Support Scheme (PRESS2020) seed grant (Principal Investigator) - AUD 5,000, supported by the Faculty of Science, Engineering and Built Environment, Deakin University
2019	Research grant (Co-Investigator) - AUD 1.28 million, funded by WorkSafe, WorkWell Improvement Fund (Round 2)
2019	ECR startup grant (Principal Investigator) - AUD 10,000, offered by the School of IT, Deakin University
2015	Student travel award from Asian Information Retrieval Society (AIRS) and Monash Institute of Graduate Research (MIGR) to attend AIRS conference in Brisbane, Australia
2014	Student travel award from Alberta Innovates Centre for Machine Learning (AICML) and Monash Institute of Graduate Research (MIGR) to attend IEEE ICDM in Shenzhen, China
2013	Australian Postgraduate Award (APA) for PhD at Monash University
2012	Best Poster Award at the Faculty of IT higher degrees by research conference, Monash University
2012	Monash Postgraduate Publication Award (PPA)
2012	Research student stipend for MIT(Research) from a research grant funded by US Air Force Research Laboratory awarded to Prof. Kai Ming Ting
2009	Research student scholarship by a research grant funded by European Research Council awarded to Dr. Jan Ramon
2007	Dean's award for outstanding academic achievement by University of Southern Queensland (USQ)
2007-2008	Academic scholarships during MIT(Coursework) study at USQ
2006	ISACA prize by Information Systems Audit and Control Association (ISACA) Brisbane Chapter
2001-2005	Outstanding student full tuition fee waiver scholarship to study BIT

## Academic Service

2020-	Co-Deputy Director - Bachelor of IT, Deakin Univeristy, School of IT
2019	Member - Course Leadership Team, Master of IT, Deakin University, School of IT
2019-	Member - School Marketing and Student Experience Committee, Deakin University, School of IT
2019-	Recognition of Prior Learning (RPL) Assessor - Bachelor of IT, Deakin Univeristy, School of IT
2018-2019	ECR Representative - School Research Committee, Federation University, School of Science, Engineering and IT

## Professional Affiliation & Service

2008-	Professional Member of Australian Computer Society
2014-	Professional Member of IEEE Computer Society
2014-	Professional Member of IEEE Young Professionals
2018-2019	Treasurer - IEEE Computational Intelligence Society (IEEE-CIS) Victoria Chapter
2019-	PC Member - Conferences such as IJCAI, AAAI, ECML/PKDD, PAKDD and ICONIP
2020-	Journal Reviewer - Journal of Artificial Intelligence Research, IEEE Intelligent Systems