



Research interests

Cat Kutay is descended from seafarers of Aboriginal and Celtic origin. Cat is a Lecturer in the Faculty of Science and Technology at Charles Darwin University. She works with Aboriginal communities for two-way learning in engineering and IT projects, including language learning and story sharing as a way for Aboriginal culture and knowledge to be acknowledged and integrated into Australian engineering approaches.

She is a Computer and Electrical Engineer. She manages projects developing software for online learning, such as through simulations of renewable energy systems to train in demand management and web services for Indigenous Knowledge sharing. In particular she develops online and blended learning resources using narrative techniques, simulations, games and multimedia to provide more immersive techniques and practice-based learning.

Dr Kutay has researched agent support for online group learning based on student interaction patterns to develop rule based system suitable for low data modelling, and works with machine learning models for language processing

Cat Kutay's research is in the areas of: Indigenous knowledge management; Machine Learning for Language Analysis; Human Computer Interaction for presenting information for exploration and pattern matching; and Artificial agents for emergent narrative in games.

Research interests

Specific research domains include:

Data Management and Visualisation through web interfaces

Web Services for online sharing and integration of multimedia-based knowledge using in cross-cultural training

Language processing for supporting learning by teachers and students in Indigenous languages

Indigenous Technology – ICT for Knowledge Management and new approach for development of Engineering Solutions

Indigenous Knowledge online – language, teaching and storytelling

Sustainable Engineering in management and technology

Simulation Games using Artificial Agents for Emergent Narratives

Group Learning Technologies

Engineering and Design Process

Employment

Membership ACS NT Branch Executive Committee 2022-

Companion Engineers Australia 2018-

Member CDU Human Research Ethics Committee 2022-

External Grants

Feb 2019 - Canada Council Funding for ongoing improvement of digital media strategy with ICMI Indigenous organisation in Canada \$195,000

Nov 2018 Social Sciences and Humanities Research Council Canada for Community Workshop/Conference in February 2019 with ICMI Indigenous organisation in Canada \$50,000

July 2013-4 Indigenous Coordination Centre funding for language web service joint with Muurrbay Language Centre \$120,000

2012-14 ALTC Grant "Indigenous online cultural teaching and sharing" in conjunction with The University of Sydney. \$220,000

Research outputs

3D printing for remote housing: Benefits and challenges

Bazli, M., Ashrafi, H., Rajabipour, A. & Kutay, C., Apr 2023, In: Automation in Construction. 148, p. 1-19 19 p., 104772.

Offline collaborative learning approach for remote Northern territory students

Dai, H., Nguyen, P. L. & Kutay, C., 9 Sep 2022, (E-pub ahead of print) In: Interactive Technology and Smart Education. p. 1-16 16 p.

Strength and erosion resistance of mudbrick as an alternative local material for Australia's Northern Territory remote housing

Sumanasena, V., Rajabipour, A., Bazli, M., Kutay, C. & Guo, D., Jun 2022, In: Case Studies in Construction Materials. 16, p. 1-11 11 p., e01023.

Aboriginal Design Process

Kutay, C., Brown, P., Cheng, E. & Lindeck, J., 2022, *Design Praxiology and Phenomenology: Understanding Ways of Knowing through Inventive Practices*. Tan, L. & Kim, B. (eds.). 1 ed. Singapore: Springer Nature Switzerland AG, p. 147-170 24 p.

Appropriate Technology

Kutay, C., 2022, *Indigenous Engineering for an Enduring Culture*. Kutay, C., Leigh, E., Prpic, J. K. & Ormond-Parker, L. (eds.). 1 ed. Newcastle upon Tyne: Cambridge Scholars Publishing, p. 236-258 23 p.

Electrical Case Studies

Kutay, C., 2022, *Indigenous Engineering for an Enduring Culture*. Kutay, C., Leigh, E., Prpic, J. K. & Ormond-Parker, L. (eds.). 1 ed. Newcastle upon Tyne: Cambridge Scholars Publishing, p. 12-20 9 p.

Engineering within community

Leigh, E. & Kutay, C., 2022, *Indigenous Engineering for an Enduring Culture*. Kutay, C., Leigh, E., Prpic, J. K. & Ormond-Parker, L. (eds.). 1 ed. Newcastle upon Tyne: Cambridge Scholars Publishing, p. 21-26 6 p.

First Nations Project Contexts in First-Year Engineering: Extending the EWB Challenge in Two Universities

Kutay, C., Goddard, G., Cheng, E., Bertei, S., Daniels, S., Lindeck, J. & Boye, T., 2022, *Indigenous Engineering for an Enduring Culture*. Kutay, C., Leigh, E., Prpic, J. K. & Ormond-Parker, L. (eds.). 1 ed. Newcastle upon Tyne: Cambridge Scholars Publishing, p. 129-151 23 p.

First Peoples' Methods of Communication and Knowledge Sharing in Australia

Kutay, C., Hromek, D. & Cheng, E., 2022, *Indigenous Engineering for an Enduring Culture*. Kutay, C., Leigh, E., Prpic, J. K. & Ormond-Parker, L. (eds.). 1 ed. Newcastle upon Tyne: Cambridge Scholars Publishing, p. 272-295 24 p.

Indigenous Engineering for an Enduring Culture

Kutay, C. (ed.), Leigh, E. (ed.), Prpic, J. K. (ed.) & Ormond-Parker, L. (ed.), 2022, 1 ed. Newcastle upon Tyne: Cambridge Scholars Publishing. 591 p.

Interfaces to Living Archives

Kutay, C., 2022.

Mechanics and Materials

Leigh, E. & Kutay, C., 2022, *Indigenous Engineering for an Enduring Culture*. Kutay, C., Leigh, E., Prpic, J. K. & Ormond-Parker, L. (eds.). 1 ed. Newcastle upon Tyne: Cambridge Scholars Publishing, p. 2-7 6 p.

Simulation for drop the ego

Leigh, E. & Kutay, C., 2022, *Indigenous for an Enduring Culture*. Kutay, C., Leigh, E., Prpic, J. K. & Ormond-Parker, L. (eds.). 1 ed. Newcastle upon Tyne: Cambridge Scholars Publishing, p. 27-41 15 p.

Sustainable Processes in Engineering

Kutay, C., Yunkaporta, T. & Leigh, E., 2022, *Indigenous Engineering for an Enduring Culture*. Kutay, C., Leigh, E., Prpic, J. K. & Ormond-Parker, L. (eds.). 1 ed. Newcastle upon Tyne: Cambridge Scholars Publishing, p. 349-376 28 p.

Wellbeing: A Process of Software Participatory Action Research

Kutay, C. & Walsh, S., 2022, *Indigenous Engineering for an Enduring Culture*. Kutay, C., Leigh, E., Prpic, J. K. & Ormond-Parker, L. (eds.). 1 ed. Newcastle upon Tyne: Cambridge Scholars Publishing, p. 526-564 39 p.

Knowledge Elicitation with Aboriginal Australian communities

Kutay, C., Oct 2021, In: *Australasian Journal of Information Systems*. 25, p. 1-21 21 p.

Do you mind if I ask? Addressing the cold start problem in personalised relational agent conversation

Ranjartabar, H., Richards, D., Bilgin, A. A. & Kutay, C., 14 Sep 2021, *Proceedings of the 21st ACM International Conference on Intelligent Virtual Agents, IVA 2021*. New York: Association for Computing Machinery, Inc, p. 167-174 8 p. (Proceedings of the 21st ACM International Conference on Intelligent Virtual Agents, IVA 2021).

First Impressions Count! The Role of the Human's Emotional State on Rapport Established with an Empathic versus Neutral Virtual Therapist

Ranjartabar, H., Richards, D., Bilgin, A. & Kutay, C., Jul 2021, In: *IEEE Transactions on Affective Computing*. 12, 3, p. 1-13 13 p.

Personalising the dialogue of relational agents for first-time users

Ranjartabar, H., Richards, D., Bilgin, A. A. & Kutay, C., Jul 2021, *Proceedings of the International Joint Conference on Autonomous Agents and Multiagent Systems, AAMAS*. USA: International Foundation for Autonomous Agents and Multiagent Systems (IFAAMAS), Vol. 3. p. 1622-1624 3 p. (Proceedings of the International Joint Conference on Autonomous Agents and Multiagent Systems, AAMAS; vol. 3).

Narrating our Learning Journey as a Community

Kutay, C., Jun 2021.

Enabling Enduring Evidence-Based Policy for the Southern Ocean Through Cultural Arts Practices

Roberts, L., Kutay, C., Melbourne-Thomas, J., Petrou, K., Benson, T. M., Fiore, D., Fletcher, P., Johnson, E., Silk, M., Taberner, S., Filgueira, V. V. & Constable, A. J., 26 May 2021, In: *Frontiers in Ecology and Evolution*. 9, p. 284 616089.

Engineering in Action

Kutay, C., 2021, *ICT Analysis and Applications: Proceedings of ICT4SD 2020*. Fong, S., Dey, N. & Joshi, A. (eds.). Singapore: Springer Science and Business Media Deutschland GmbH, Vol. 2. p. 193-202 10 p. (Lecture Notes in Networks and Systems; vol. 154).

First Peoples Engineering - Creating cultural spaces

Kutay, C., Leigh, E. & Herkess, S., 2021, *9th Research in Engineering Education Symposium and 32nd Australasian Association for Engineering Education Conference, REES AAEE 2021: Engineering Education Research Capability Development*. Male, S. & Guzzomi, A. (eds.). Perth: Research in Engineering Education Network, Vol. 2. p. 1021-1030 10 p. (9th Research in Engineering Education Symposium and 32nd Australasian Association for Engineering Education Conference, REES AAEE 2021: Engineering Education Research Capability Development; vol. 2).

First People's Engineering - implementing cases and experiences

Leigh, E., Kutay, C., Ormond-Parker, L. & Prpic, K., 2021, *9th Research in Engineering Education Symposium and 32nd Australasian Association for Engineering Education Conference, REES AAEE 2021: Engineering Education Research Capability Development*. Male, S., Male, S. & Guzzomi, A. (eds.). Perth: Research in Engineering Education Network, Vol. 2. p. 1129-1130 2 p. Code 185286. (9th Research in Engineering Education Symposium and 32nd Australasian Association for Engineering Education Conference, REES AAEE 2021: Engineering Education Research Capability Development; vol. 2).

Story learning practices as innovation for life-long learning

Kutay, C. & Walsh, S., 2021, *14th International Conference of Education, Research and Innovation (ICERI2021)*. Gómez Chova, L., López Martínez, A. & Candel Torres, I. (eds.). Valencia: IATED Academy, p. 8366-8373 8 p. (ICERI Proceedings).

Community-University Projects as Industrial Experience: Opportunities are building around us
Kutay, C. & Smith, J., 2 Dec 2020.

Caretaking Aboriginal Australian Knowledge Online
Kutay, C., Dec 2020, In: *ab-Original*. 4, 1-2, p. 72-102 30 p., 4.1-2.

Learning on country: A game-based approach towards preserving an Australian Aboriginal language
Kutay, C., Szapiro, D., Garcia, J. & Raffe, W., 23 Nov 2020, *ICCE 2020 - 28th International Conference on Computers in Education, Proceedings*. So, H-J., Rodrigo, M. M., Mason, J., Mitrovic, A., Bodemer, D., Chen, W., Chen, Z-H., Flanagan, B., Jansen, M., Nkambou, R. & Wu, L. (eds.). Taiwan: Asia-Pacific Society for Computers in Education, Vol. 1. p. 540-545 6 p. (ICCE 2020 - 28th International Conference on Computers in Education, Proceedings; vol. 1).

Adapting a virtual advisor's verbal conversation based on predicted user preferences: A study of neutral, empathic and tailored dialogue
Ranjartabar, H., Richards, D., Bilgin, A. A., Kutay, C. & Mascarenhas, S., Sep 2020, In: *Multimodal Technologies and Interaction*. 4, 3, p. 1-24 24 p., 55.

Engineering Ethics as Storylines: Emulating the moral imperative of Aboriginal stories
Kutay, C., Aug 2020.

Observations on appropriate technology application in Indigenous community using system dynamics modelling
Jokhu, P. D. & Kutay, C., 13 Mar 2020, In: *Sustainability (Switzerland)*. 12, 6, p. 1-12 12 p., 2245.

Learning on Country: A Game-Based approach towards re-use of an Australian Aboriginal Language
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User-models to drive an adaptive virtual advisor
Ranjartabar, H., Richards, D., Bilgin, A. A., Kutay, C. & Mascarenhas, S., 2020, *Proceedings of the 19th International Conference on Autonomous Agents and Multiagent Systems, AAMAS 2020*. An, B., El Fallah Seghrouchni, A. & Sukthankar, G. (eds.). USA: International Foundation for Autonomous Agents and Multiagent Systems (IFAAMAS), Vol. 2020-May. p. 2117-2119 3 p. (Proceedings of the International Joint Conference on Autonomous Agents and Multiagent Systems, AAMAS; vol. 2020-May).

Locating knowledge
Kutay, C., 2 Jan 2019, In: *Archives and Manuscripts*. 47, 1, p. 72-93 22 p.

Applied Linguistics and language teaching: Making connections
Kutay, C., 2019, p. 51-51. 1 p.

Transdisciplinary learning: transformative collaborations between students, industry, academia and communities
Melvold, J., Nicholas, A., Clifton-Cunningham, A., Golja, T., Kutay, C., Regmi, A., Vincent, N., Walsh, S., Yap, E-H. & Collective, C-C., 2019.

Brewarrina Fish Traps, on the Barwon – Darling Catchment, NSW
Kutay, C. & Beetson, S., May 2018, *Engineering Heritage Magazine: Special issue on Mildura Conference*, 2, 8, p. 10-11 2 p.

Building digital entrepreneurial platform through local community activity and digital skills in Aboriginal Australia

Pradhan, S., Beetson, S. & Kutay, C., 1 Jan 2018, p. 1-8. 8 p.

Sarah the virtual advisor to reduce study stress

Ranjartabar, H., Richards, D., Kutay, C. & Mascarenhas, S., 1 Jan 2018, *Proceedings of the International Joint Conference on Autonomous Agents and Multiagent Systems, AAMAS*. New York: International Foundation for Autonomous Agents and Multiagent Systems (IFAAMAS), Vol. 3. p. 1829-1831 3 p. (Proceedings of the International Joint Conference on Autonomous Agents and Multiagent Systems, AAMAS; vol. 3).

Cross-Cultural Construction Engineering with Aboriginal Communities

Kutay, C., Gunay, B. & Tobin, C., Jan 2018, *29th Australasian Association for Engineering Education Conference 2018 (AAEE 2018)*. Hamilton, New Zealand: Engineers Australia, p. 387-394 8 p.

How RU? Finding out when to help students

Ranjartabar, H., Richards, D. & Kutay, C., 2018, *Lecture Notes on Data Engineering and Communications Technologies*. Xhafa, F., Barolli, L. & Caballé, S. (eds.). 1 ed. Cham, Switzerland: Springer Science and Business Media Deutschland GmbH, Vol. 13. p. 565-575 11 p. (Lecture Notes on Data Engineering and Communications Technologies; vol. 13).

How we tell our engineering stories

Kutay, C. & Leigh, E., 2018, *Proceedings of the Annual Conference of the Australasian Association for Engineering Education - AAEE2018*. Hamilton, New Zealand: Australasian Association for Engineering Education (AAEE), p. 787-795 9 p.

Indigital Cultures Digital Strategies Proposal

Kutay, C. & Manatch, M., 2018

Leading from the Engine Room

Kutay, C. & Leigh, E., 2018, *Intersections in Simulation and Gaming - 21st Annual Simulation Technology and Training Conference, SimTecT 2016, and 47th International Simulation and Gaming Association Conference, ISAGA 2016, Held as Part of the 1st Australasian Simulation Congress, ASC 2016, Revised Selected Papers*. Wardaszko, M., Meijer, S., Leigh, E. & Naweed, A. (eds.). Cham, Switzerland: Springer-Verlag London Ltd., Vol. 1. p. 30-42 13 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 10711 LNCS).

Teaching an Australian Aboriginal Knowledge Sharing Process

Kutay, C., 2018, *Advances in Culturally-Aware Intelligent Systems and in Cross-Cultural Psychological Studies*. Faucher, C. (ed.). 1 ed. Cham: Springer Nature Switzerland AG, p. 63-96 34 p. (Intelligent Systems Reference Library; vol. 134).

Towards an Adaptive System: Users' Preferences and Responses to an Intelligent Virtual Advisor based on Individual Differences

Ranjartabar, H., Richards, D., Kutay, C. & Mascarenhas, S., 2018, *Proceedings 27th International Conference on Information Systems Development*. Andersson, B., Johansson, B., Carlsson, S., Barry, C., Lang, M., Linger, H. & Schneider, C. (eds.). 1 ed. Lund, Sweden: Lund University Press, p. 1—12 12 p.

Validating storytelling for Indigenous knowledge teaching

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Doctoral symposium: Visualising complex event hierarchies using relevant domain ontologies

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Enduring Engineering for Water Resources

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Aboriginal Engineering for an Enduring Civilisation

Kutay, C. & Leigh, E., 2017, *Proceedings of the 28th Annual Conference of the Australasian Association for Engineering Education (AAEE 2017)*. Huda, N., Inglis, D., Tse, N. & Town, G. (eds.). Sydney, Australia: Macquarie University, Vol. 1. p. 6—13 8 p. 3

Flipped Learning not Flopped Learning

Kadi, A., Kutay, C. & Canning, J., 2017, *Proceedings of the 28th Annual Conference of the Australasian Association for Engineering Education (AAEE 2017)*. Huda, N., Inglis, D., Tse, N. & Town, G. (eds.). 1 ed. Sydney, Australia: Engineers Australia, p. 14-21 8 p.

Supporting Language Teaching Online

Kutay, C., 2016, *Proceedings of the LREC 2016 Workshop: CCURL 2016 – Collaboration and Computing for Under-Resourced Languages: Towards an Alliance for Digital Language Diversity*. Soria, C., Pretorius, L., Declerck, T., Mariani, J., Scannell, K. & Wandl-Vogt, E. (eds.). Italy: Istituto di Linguistica Computazionale, Vol. 1. p. 38-45 8 p.

Using complex events to represent domain concepts in graphs

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One person's culture is another one's entertainment

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HCI model for culturally useful knowledge sharing

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Support for non IT savvy teachers to incorporate games

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Intercultural-role plays for e-learning using emotive agents

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Teaching through story mapping

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The Kinship On-Line Project and Aboriginal Community Engagement

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