



Charles Sturt
University

Research and Teaching in Diagnostic Radiography 2025

School of Dentistry and Medical Sciences



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Celebrating Success in 2025

What a wonderful collation of the team's accomplishments across 2025. I have consistently said that we are quiet achievers and this inaugural *Research and Teaching in Diagnostic Radiography* report exemplifies exactly that. It is a pleasure to see our team continue to grow and evolve to positively impact the learning and teaching of our students, alumni and the profession and add to the body of diagnostic radiography knowledge.

Please join me in welcoming back to Campus Dana and Caroline who are both returning from parental leave. And a warm welcome to our newest staff member, Haydn. We are excited to have your expertise on the team.

A huge congratulations goes out to Yazan on the successful completion of his PhD! This is a monumental achievement and a testament to your dedication. A note also to Shayne who has successfully defended his PhD, Bismark who has just submitted his thesis and Johnathan, Clare, Caroline, Tarni and Haydn as they continue on their PhD journey.

Congratulations to Bismark, Shayne, and Yazan for educational excellence in completing their Graduate Certificate in Learning and Teaching in Higher Education (GCULT). The GCULT is a terrific stepping stone into academia and is an important benchmark in an academic career.

We are incredibly proud to announce that Johnathan has been recognized with the Executive Dean's Teaching Award. Johnathan's commitment to research-informed teaching and leadership in radiographic image interpretation continues to transform the student experience in diagnostic radiography.

Curriculum and strategic updates include a sincere thank you to the entire team and our

Courses Director Thiru for the hard work on the Bachelor of Medical Radiation Science (BDR) course review. Our new course is set to commence in 2027 with an updated curriculum that has been shaped by the voices of our students, industry partners, external advisory committee and our academics. Your efforts ensure that our program remains at the forefront of diagnostic radiography education in Australia.

The 2025 Charles Sturt University Sustainable Development Goals (SDG) Report has been released. Charles Sturt continues to lead the way, recently ranking in the top 200 globally in the Impact Rankings. Our team's publications have contributed to these goals.

The teams research continues to grow with 51 publications in 2025. Our team also was awarded three out of the seven categories in the 2025 Journal of Medical Imaging and Radiation Therapy Editors' Choice Awards:

Bismark – *Top Commentary*
Shayne – *Top Narrative*
Tarni & Johnathan – *Educational Perspectives*

Such a great result and a big win for our diagnostic radiography and Charles Sturt's research visibility globally.

Also a huge year for clinical placements that could not have succeeded without the support of our Workplace Learning Officer Lynne Wilson. Lynne organised 544 Diagnostic Radiography placements across second to fourth year. This volume of placements is a major undertaking. We are managing a significant cohort again in 2026, highlighting the continued demand for our course.

There is so much more that could be shared here. Please read on to find out more about our team's key highlights from 2025.

Kelly

Staff Conference Attendance and Presentations



Most of the Radiography academics were able to attend the annual Australian Society of Medical Imaging and Radiation Therapy conference in Adelaide, South Australia from the 27th – 30th March 2025.

Attendees and Presentations:

Kelly Spuur (*Invited Speaker*)

Imaging the augmented breast: Implant Displacement Imaging vs Cone Beam Breast CT

Best practice imaging of cardiac implantable electronic devices – radiographer, radiologist, cardiologist and manufacturer insights

Reporting the continuing professional development engaged for renewal of the Certificate of Mammography Practice (CMP) – a snapshot of current practice

Shayne Chau

Does age, sex and substantia nigra echogenicity predict the appearance of nigrosome-1 on susceptibility-weighted MRI?

Shayne Chau and Clare Singh

A systematic review of the role of group learning contracts in healthcare education

Bismark Ofori-Manteaw

Enhancing patient care through soft skills: A scoping review in medical radiation science

Johnathan Hewis

Exploring the experience of conference convening in medical radiation sciences: A collaborative autoethnography.

Magnetic resonance imaging as the modern Panopticon: A Foucauldian exploration of power and control in MRI.

Navigating a research doctorate: A transformative journey.

Text-to-image generative artificial intelligence depiction of radiographers and nuclear medicine scientists: a pictorial review



Yazan Al-Hayek

Enhancing CT imaging: Localiser radiographs' role in reducing radiation dose and optimising image quality

Tarni Nelson

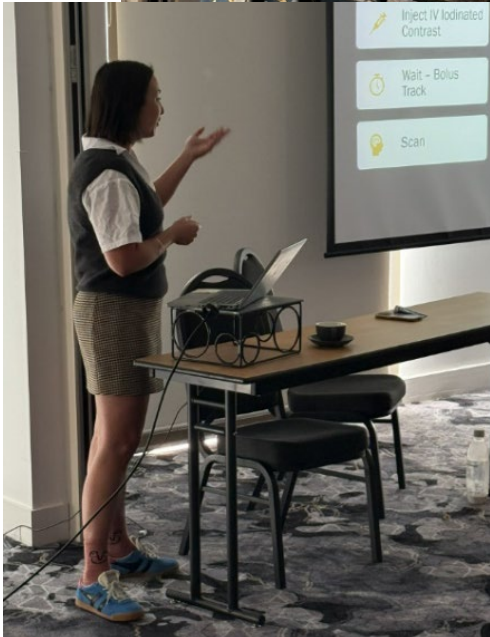
Radiology's Environmental Impact: A Scoping Review

MNC 2025 Conference

Co-convened by Charles Sturt academics Johnathan Hewis and Tarni Nelson, this industry event was held on the sunny Port Macquarie Campus which was an inspiring weekend filled with dynamic guest speakers, interactive learning, and meaningful collaboration between Medical Radiation Practitioners spanning the country.



RAINS 2025 Annual Conference



Johnathan and Tarni from Diagnostic Radiography as well as Kym and Geoff from Physics and Nuclear Safety discipline delivered several presentations and workshops at the 2025 RAINS conference 11th – 12th October in Sydney, NSW.

Johnathan Hewis - CT principles

Tarni Nelson - CT protocols

Kym Barry - Clinical supervision

Geoff Currie - Novel theranostics with Rhenium



ANZAHPE

Australian & New Zealand
Association for Health
Professional Educators

ANZAHPE – Perth WA

30th June – 3rd July 2025

Two of our Senior Lecturers from our Wagga Campus attended the annual 'Australian and New Zealand Association for Health Professional Educators' conference. This time located in Perth, Western Australia from the 30th June – 3rd July 2025.

Shayne Chau: Transforming Medical Radiation Science Education through Gamification

Clare Singh: Enhancing Team Dynamics and Learning Outcomes in Medical Radiation Education Through Group Learning Contracts

During this visit, Shayne and Clare also visited academic staff from Curtin University to further enhance our network and collaboration.



Radiopaedia

July 21-25 2025: Shayne Chau was an invited speaker for Radiopaedia 2025 conference in July 2025. His presentation titled: '**Life between scans: my shift from radiographer to patient**'



ASMIRT NSW Branch presents

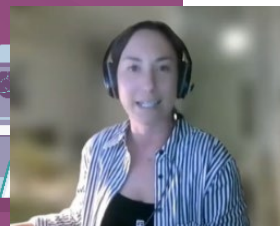
IMAGE CRITIQUE SERIES

3 CONSECUTIVE WEDNESDAYS –
3 SEP, 10 SEP, 17 SEP 2025
6.30PM – 8.30PM (AEST)
ONLINE



ONLINE
EVENT

UP
TO
6
CPD HOURS



Co-convened and hosted by Charles Sturt academics Tarni Nelson and Johnathan Hewis, this three-part image critique series was held virtually over consecutive Wednesday evenings. With over 500 Medical Radiation Science participants across the country the event was a success in bringing a diverse range of speakers from across the nation to share their top strategies and insider tips on mastering image critique to the profession. Kelly also presented at one of these events: *Improving Mammographic Positioning Through Image Quality Critique*.

Staff Engagement

Rad Ball 2025

September 2025: The MRS Discipline hosted RadBall 2025, celebrating third-year students as they prepared for their final-year residency program. The event featured guest speaker Clare Singh, who shared valuable insights on professional readiness and the transition to clinical practice.



Radiology Across Borders – Facial Bones Interpretation Webinar



13th November 2025

Senior Lecturer Johnathan Hewis presented in a Radiology Across Borders Webinar titled “*Getting Started with Facial Bone X-ray Interpretation*”, highlighting the MRS discipline’s contribution to international radiography education.

Three Rivers Research Workshop

25th November 2025

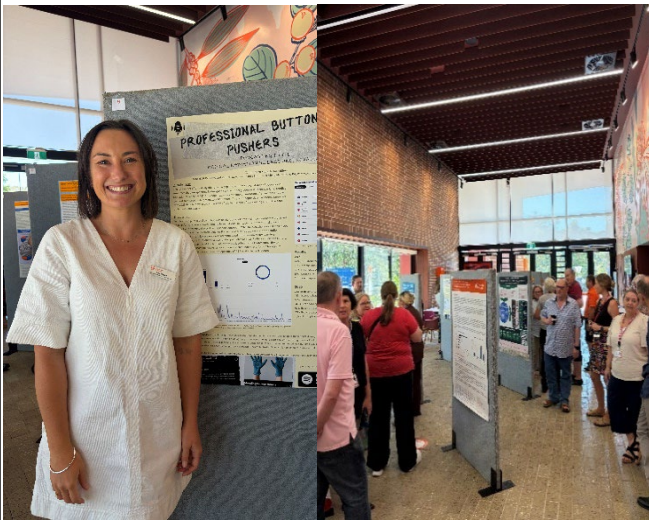
Kelly, Haydn and Yazan attended the Three Rivers’ *Collaborative Workshop: Partnering with Health Consumers*. The interactive workshop brought together researchers, health professionals, health consumers and community members to explore approaches to impactful health research across the Murrumbidgee region and foster collaborative research practice.



Poster Muster

Led by the SDMS organising committee Tarni Nelson, Boris Budiono, Jaimy Jose and the School Executive, Poster Muster season was a success after the first year rolling out musters on three SDMS campuses including, Port Macquarie, Wagga Wagga and Orange.

These events are SDMS led and in the spirit of inclusivity, welcome staff and students from across FOSH and the University and are proving a great means for connection. As a part of the organising committee, host and grazing board caterer Tarni Nelson was kept busy, but still had time for a poster submission. Old faithful SDMS academic, Johnathan Hewis was another honourable mention in both a poster presentation and short talk, which generated much discussion in the room. From Wagga, Shayne Chau and Kelly Spuur also included posters for presentation.



Be a Health Hero

The MRS Discipline hosted Year 10 students from selected high schools as part of the Be a Health Hero program under the Pathways to Health Careers initiative. The immersive program introduced students to careers in MRS through informative activities led by the discipline team.

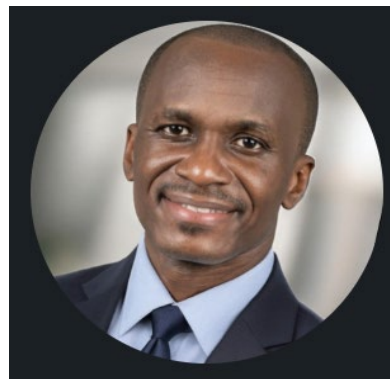


Murrumbidgee Local Health District

November 2025

Bismark was invited to speak at the Murrumbidgee Local Health District Community of Practice series on *"Patient-Centred Care in Geriatric Radiography: Practical Strategies for Clinical Practice."*

The session fostered shared learning and reflection among clinicians and educators, highlighting strategies that can be readily translated into everyday clinical workflows.



Congratulations Shayne Chau for his appointments in the Rural Health Network Clinical Focus Subgroup and Murrumbidgee District Clinical Council.

Academic Research

In 2025, the Diagnostic Radiography Team demonstrated a strong and collaborative research profile, producing high-impact scholarship reflecting sustained excellence in clinical, educational, and interdisciplinary research.

Peer-Reviewed Research outputs: 51

Conference Publications & Presentations: 10

Doctoral thesis: 1

Book chapters: 1

Our key research themes include:

1) Clinical Imaging Practice & Optimisation

Research focused on improving image quality, radiation dose optimisation, CT and MRI techniques, mammography practice, cone beam breast CT, contrast safety, infection prevention, and workflow efficiency across diverse clinical settings, including resource-constrained and rural environments.

2) Education, Pedagogy & Professional Learning

Strong scholarship in radiography and allied health education, including game-based learning, escape rooms, learning contracts, simulation, virtual tours, podcasts, reflective practice, and assessment design, with a focus on student engagement and workforce readiness.

3) Artificial Intelligence, Ethics & Digital Innovation

Extensive work examining the use of AI in medical imaging and education, including generative AI, algorithmic bias, representation, informed consent, AI-supported learning tools, and the ethical implications of emerging technologies for patients and professionals.

4) Workforce, Professional Identity & Wellbeing

Studies addressing advanced practice pathways, job satisfaction, turnover intentions, professional identity, rural resilience, pain management, and practitioner wellbeing, reflecting engagement with contemporary workforce challenges.

5) Patient-Centred Care, Equity & Experience

Research exploring patient experience, access to imaging, emotional impacts of diagnosis, health literacy, equity in regional and rural contexts, and inclusive approaches to care delivery.

6) Sustainability & Global Health Perspectives

Work aligned with environmental sustainability, digital health systems, and global and low- and middle-income country (LMIC) contexts, reinforcing the discipline's contribution to sustainable and equitable healthcare.



Thematic areas of research

Scientific Publications

1. Ofori-Manteaw, B., & Amevorwoshie, P. E. (2025). Image Reject Patterns in Computed Radiography: Insights From a Ghanaian Radiology Department. *Journal of Medical Radiation Sciences*, 0, 1-9. <https://doi.org/https://doi.org/10.1002/jmrs.70039>
2. Ofori-Manteaw, B., Angaag, N. A., Angmorterh, S. K., Dzefi-Tettey, K., & Ofori, E. K. (2026). Assessing Ghanaian radiographers' competency in preliminary image evaluation: A pre- and post-test study. *Radiography*, 32(1), 103224. <https://doi.org/10.1016/j.radi.2025.103224>
3. Ofori-Manteaw, B., Omari, G., Angmorterh, S. K., Ofori, E. K., & Dzefi-Tettey, K. (2026). Exploring radiographers' readiness and perceived barriers to preliminary image evaluation in Ghana. *Radiography*, 32(1), 103225. <https://doi.org/10.1016/j.radi.2025.103225>
4. Ofori-Manteaw, B., Agyemang, P. N., Ofori, E. K., Angmorterh, S. K., & Dzefi-Tettey, K. (2025). A snapshot of unreported radiographs, image interpretation turn-around times and implications for radiography practice in a resource-constrained setting. *J Med Imaging Radiat Sci*, 56(6), 102108. <https://doi.org/10.1016/j.jmir.2025.102108>
5. Ofori-Manteaw, B., Ofori, E. K., Dzefi-Tettey, K., & Angmorterh, S. K. (2025). Ghanaian radiographers' perspectives on participating in preliminary image evaluation: A qualitative study. *Journal of Medical Imaging and Radiation Sciences*, 56(6), 102087. <https://doi.org/https://doi.org/10.1016/j.jmir.2025.102087>
6. Pierson, A. D., Ofori-Manteaw, B., Mumuni, H. N., & Dzefi-Tettey, K. (2025). Readability of patient education materials on cardiac magnetic resonance imaging. *European Heart Journal - Imaging Methods and Practice*, 3(2). <https://doi.org/10.1093/ehjimp/qyaf111>
7. Ago, J. L., Kilgour, A., Chau, M., Ohene-Botwe, B., Ofori-Manteaw, B., Smith, C. L., Acquah, G., & Akudjedu, T. N. (2025). Advancing environmental sustainability concepts in medical radiation science education: A document analysis.
8. Atuwu-Ampoh, V. D., Whajah, G., Ofori-Manteaw, B., Addo, P., & Angaag, N. A. (2025). Stress and coping mechanisms among undergraduate radiography students: A single centre study in Ghana. *Radiography (Lond)*, 31(5), 103094. <https://doi.org/10.1016/j.radi.2025.103094>
9. Ofori-Manteaw, B. (2025). Integrating soft skills into medical radiation science curricula: A necessity, not an option. *Journal of Medical Imaging and Radiation Sciences*, 56(5). <https://doi.org/10.1016/j.jmir.2025.101979>
10. Ofori-Manteaw, B., Nelson, T., Barry, K., Al Mousa, D., Nabasenja, C., Frame, N., Singh, C., Spuur, K., & Chau, M. (2025). Beyond technical proficiency: A scoping review of the role of soft skills in medical radiation science. *Radiography (Lond)*, 31(3), 102924. <https://doi.org/10.1016/j.radi.2025.102924>
11. Ago, J. L., Kilgour, A., Angaag, N. A., Korsah, S., Ofori-Manteaw, B., Smith, C. L., Acquah, G., Domlan, M., Domi, E. M., & Neequaye, J. J. (2025). Strategies for improving geriatric patient-centred care in medical radiation practice. *J Med Imaging Radiat Sci*, 56(3), 101887. <https://doi.org/10.1016/j.jmir.2025.101887>
12. Abdul Razak, W., Takyi, C., & Ofori-Manteaw, B. B. (2025). Exploring sustainability in radiography: A study of Ghanaian radiographers. *Radiography*, 31(3), 102952. <https://doi.org/10.1016/j.radi.2025.102952>
13. Chau, M., Arruzza, E., Spuur, K., & Ofori-Manteaw, B. (2025). From classroom to global impact: How radiography education advances the sustainable development goals. *Radiography*, 31(1), 224-230. <https://doi.org/https://doi.org/10.1016/j.radi.2024.11.015>
14. Fitzgerald, J., Spuur, K. M., Singh, C., & Al Mousa, D. S. (2025). Australian radiographers' approaches to mammographic imaging of women with cardiac implantable electronic devices. *Radiography*. <https://doi.org/10.1016/j.radi.2025.102940>

Scientific Publications

15. Spuur, K. M., Singh, C. L., Al Mousa, D., & Chau, M. T. (2025). Automated Software Evaluation in Screening Mammography: A Scoping Review of Image Quality and Technique Assessment. *Current Oncology*. DOI: [10.3390/curroncol32100571](https://doi.org/10.3390/curroncol32100571)
16. Chau, M., Higgins, G., Arruzza, E., & Singh, C. L. (2025). Bill': An artificial intelligence (AI) clinical scenario coach for medical radiation science education. *Radiography*, 31(5), 103002
DOI: [10.1016/j.radi.2025.103002](https://doi.org/10.1016/j.radi.2025.103002)
17. Chau, M., Arruzza, E., & Singh, C. L. (2025). The 'Negotiator': Assessing artificial intelligence (AI) interview preparation for graduate radiographers. *Journal of Medical Imaging and Radiation Sciences*, 56(5), 101982.
<https://doi.org/10.1016/j.jmir.2025.101982>
18. Chau, M., Singh, C. L., & Bowman, T. (2025). Group learning contracts in healthcare education: systematic review. *Journal of Medical Imaging and Radiation Sciences*. DOI: [10.1016/j.jmir.2024.101843](https://doi.org/10.1016/j.jmir.2024.101843)
19. Singh, C. L., Spuur, K., Rose, L., Jones, D., Irwin, P., & Yun, J. (2026). Documentation of contrast hypersensitivity reactions: a socio-ecological scoping review. *European Journal of Radiology*. DOI: [10.1016/j.ejrad.2025.112539](https://doi.org/10.1016/j.ejrad.2025.112539)
20. Zheng, X., Avazbaev, S., & Al-Hayek, Y. (2025). *Coherent interference effects in monochromatic CT attenuation*. *Optics Express*. DOI: [10.1364/OE.568795](https://doi.org/10.1364/OE.568795)
21. Nabasenja, C., Chau, M., & Green, E. (2025). *ChatGPT-4o reflections vs professional standards (pilot)*. *Journal of Medical Imaging and Radiation Sciences*. <https://doi.org/10.1016/j.jmir.2025.102082>
22. Alakhras, M., Al-Mousa, D. S., Al Mohammad, B., & Spuur, K. (2025). Assessing job satisfaction and turnover intentions among radiologists across Jordanian hospitals: A nationwide study. *Journal of Public Health Research*, 14(3), 1–8.
23. Alakhras, M., Al-Mousa, D. S., Al Mohammad, B., & Kleib, I. (2025). Radiation dose to health care workers measured by thermoluminescent dosimetry. *Clinical Radiology*, 81, 106712.
<https://doi.org/10.1016/j.crad.2024.09.018>
24. Spuur, K., Currie, G., Al-Mousa, D., & Pape, R. (2025). Suitability of ChatGPT as a source of patient information for screening mammography. *Health Promotion Practice*, 26(4), 746–762.
DOI: [10.1177/15248399241285060](https://doi.org/10.1177/15248399241285060)
25. Kleib, I., Alakhras, M., Oteir, A., & Al-Mousa, D. S. (2025) *X-ray beam collimation in radiography: A study of compliance among radiographers*. *Radiation Medicine and Protection*, 6(5), 284–290.
<https://doi.org/10.1016/j.radmp.2025.09.003>
26. Hanna, M., Brabin, J., Spuur, K., Keshwan, R., & Chau, M. (2025). *A narrative review of the benefits of RIS/PACS and its integration into the radiology departments of low- and middle-income countries*. *Radiography*, 31(6), 103185.
<https://doi.org/10.1016/j.radi.2025.103185>
27. Dahlenburg, K., Spuur, K., Shephard, S., & Pinzon Perez, W. (2025). Exploring Radiographers' understanding of pain: An Australian survey study. *Radiography*. <https://doi.org/10.1016/j.radi.2025.103007>
28. Chau, M. T., Spuur, K. M., & Han, J. (2025). *Rural resilience: A collaborative autoethnography of medical radiation practitioners*. *Radiography*. <https://doi.org/10.1016/j.radi.2025.103178>
29. Nocum, D., & Hewis, J. (2025). A global evaluation of Advanced Practice recognition pathways for diagnostic radiography. *Radiography*. <https://doi.org/10.1016/j.radi.2025.102923>
30. Nelson, T., & Hewis, J. (2025). Clinical decision making through game-based learning: Observations within a Radiography Escape Room. *J Med Imaging Radiat Sci*;56(3):101868.
DOI: [10.1016/j.jmir.2025.101868](https://doi.org/10.1016/j.jmir.2025.101868)
31. Currie, G., Hewis, J., Hawk, E., Kiat, H., & Rohren, E. (2025). *Fitness for purpose of text-to-image generative artificial intelligence image creation in medical imaging*. *Journal of Nuclear Medicine Technology*, 53(1), 63–67.
32. Currie, G., Hewis, J., Hawk, E., & Rohren, E. (2025). Gender and ethnicity bias of text-to-image generative artificial intelligence in medical imaging, Part 2: Analysis of DALL-E 3. *Journal of Nuclear Medicine Technology*, 53(2), 162–168.
DOI: [10.2967/jnmt.124.268359](https://doi.org/10.2967/jnmt.124.268359)

Scientific Publications

33. Currie, G., Hewis, J., & Wheat, J. (2025). Gender and ethnicity representation of university academics by generative artificial intelligence using DALL-E 3. *Journal of Further and Higher Education*, 49(8), 1064–1078. <https://doi.org/10.1080/0309877X.2025.2528788>
34. Currie, G., Hewis, J., & Ebbs, P. (2025). Gender bias in text-to-image generative artificial intelligence depiction of Australian paramedics and first responders. *Australasian Emergency Care*, 28(2), 103–109. <https://doi.org/10.1016/j.auec.2024.11.003>
35. Surjan, Y., Beldham-Collins, R., & Hewis, J. (2025). Research methods: Interviews and focus groups. *Spectrum*, 32(5), 24–26.
36. Smith, T., Chau, M., Sims, J., & Arruzza, E. (2025). ²³Na-MRI for breast cancer diagnosis and treatment monitoring: A scoping review. *Bioengineering*, 12(2), 158. DOI: [10.3390/bioengineering12020158](https://doi.org/10.3390/bioengineering12020158)
37. Chau, M. (2025). Alone with the diagnosis: A reflective analysis on imaging report access and emotional burden. *Radiography*, 103104 (E-pub ahead of print). DOI: [10.1016/j.radi.2025.103104](https://doi.org/10.1016/j.radi.2025.103104)
38. Chau, M., Vu, H., Debnath, T., & Rahman, M. G. (2025). A scoping review of automatic and semi-automatic MRI segmentation in human brain imaging. *Radiography*, 31(2), 102878. DOI: [10.1016/j.radi.2025.01.013](https://doi.org/10.1016/j.radi.2025.01.013)
39. Adams, A., Bushell, M., Kelly, A., Nahon, I., Chau, M., Kavanagh, P. S., Sabeti, F., Lawlis, T., Bacon, R., Leary, K., & Frost, J. (2025). Assessing the feasibility of adapting a nursing questionnaire for evaluating patient safety education in pharmacy. *Pharmacy Education*, 25(1), 450–459. <https://doi.org/10.46542/pe.2025.251.450459>
40. White, S. J., Chau, M., Arruzza, E., Ong, M., John, H., Theiss, R., Yaxley, K. L., & To, M.-S. (2025). *Assessment of STARD 2015 guideline adherence in medical imaging diagnostic accuracy studies published in 2023*. *Journal of Clinical Epidemiology*, 179, 111654. <https://doi.org/10.1016/j.jclinepi.2024.111654>
41. Chau, M. T., Agzarian, M., Wilcox, R. A., & Todd, G. (2025). *Association between nigrosome-1 appearance on MRI and fine motor function in healthy adults and people living with Parkinson's disease*. *Journal of Neural Transmission (E-pub ahead of print)*. DOI: [10.1007/s00702-025-03047-2](https://doi.org/10.1007/s00702-025-03047-2)
42. Chau, S. (2025). *Beyond the machine: A radiographer's tale*. *Journal of Medical Imaging and Radiation Sciences*, 56(1), 101771. DOI: [10.1016/j.jmir.2024.101771](https://doi.org/10.1016/j.jmir.2024.101771)
43. Chau, M. T., Agzarian, M., Wilcox, R. A., & Todd, G. (2025). *Does age, sex, and substantia nigra echogenicity predict the MRI appearance of nigrosome-1?* *Journal of the Neurological Sciences*, 469, 123383. <https://doi.org/10.1016/j.jns.2024.123383>
44. Adams, A., Bushell, M., Kelly, A., Nahon, I., Chau, M., et al. (2025). Assessing the feasibility of adapting a nursing questionnaire for evaluating patient safety education in pharmacy. *Pharmacy Education*, 25(1), 450–459.
45. Abu Awwad, D., Hill, S., Chau, M., Lewis, S., & Jimenez, Y. A. (2025). Radiography students' knowledge, attitude and practice relating to infection prevention and control in the use of contrast media injectors in computed tomography. *Journal of Medical Radiation Sciences*, 72(1), 42–53. DOI: [10.1002/jmrs.820](https://doi.org/10.1002/jmrs.820)
46. Chau, M., Rahman, M. G., & Debnath, T. (2025). *From black box to clarity: Strategies for effective AI-informed consent in healthcare*. *Artificial Intelligence in Medicine*, 167, 103169. DOI: [10.1016/j.artmed.2025.103169](https://doi.org/10.1016/j.artmed.2025.103169)
47. Vu, H., Arruzza, E., & Chau, M. (2025). *Use of 360° interactive virtual tours to enhance familiarity of the radiology department*. *Radiography*, 31(5), 103023. <https://doi.org/10.1016/j.radi.2025.103023>
48. Paterson, C., Chau, M., Turner, M. R., & Primeau, C. (2025). What is the Lived Experience of People Affected by Cancer, Family Members, and Their Treatment Team Engaged in Patient Initiated Follow-Up and Preferences in Cancer Care: A Qualitative Systematic Review. *Seminars in Oncology Nursing*, 41(6), 152041. DOI: [10.1016/j.soncn.2025.152041](https://doi.org/10.1016/j.soncn.2025.152041)

Scientific Publications

49. Kilday, R., & Chau, M. (2025). *Remote X-ray operators in Australia: A scoping review of self-perceived competence and educational needs*. *Radiography*, 31(6), 103200.

<https://doi.org/10.1016/j.radi.2025.103200>

50. Calder, J., Kavanagh, P. S., Bacon, R., Chau, M., Sidhu, D., & Toohey, K. (2025). *Effects of exercise dose on psychological health outcomes in people diagnosed with cancer: A systematic review and meta-analysis*. *Disability and Rehabilitation*, 47(14), 3516–3527.

<https://doi.org/10.1016/j.jclinepi.2024.111654>

51. Gardiakos, N., Chau, M., & Arruzza, E. (2025). *The role of podcasts in allied health education: A scoping review on engagement and learning outcomes*. *Radiography*, 31(5), 103022.

<https://doi.org/10.1016/j.radi.2025.103022>

Book Chapters

Hewis, J., Hargan, J., Strudwick, R., & Sá dos Reis, C. (2026). *Person-centred and personalised care for radiography in the AI era*. In C. Malamateniou, M. Hardy, K. Knapp, & A. Ramlal (Eds.), *Artificial Intelligence for Radiographers: Basic Principles, Clinical Applications and Implementation Considerations* (1st ed.). Springer Nature Switzerland.

Conference Presentations / Posters / Abstracts

Ofori-Manteaw, B., Nelson, T., Barry, K., Al Mousa, D., Nabasenja, C., Frame, N., Singh, C., Spuur, K., & Chau, M. (2025). *Enhancing patient care through soft skills: A scoping review in medical radiation science*. ASMIRT/NZMIRT Conference 2025, Adelaide, Australia.

Al-Hayek, Y., Ofori-Manteaw, B., Frame, N., Spuur, K., Zheng, X., Rose, L., & Chau, M. (2025). *Enhancing CT imaging: Localiser radiographs' role in reducing radiation dose and optimising image quality*. ASMIRT/NZMIRT Conference 2025, Adelaide, Australia.

Hewis, J., Currie, G., Hawk, E., & Rohren, E. (2025). *Diversity bias of text-to-image generative artificial intelligence in radiology and radiography*. Conference abstract, pp. 63–64.

Hewis, J., Steward, A., & Hyde, E. (2025). *Exploring the experience of conference convening in medical radiation sciences: A collaborative autoethnography*. Conference abstract, p. 59.

Hewis, J., Rossiter, R., & Bramble, M. (2025). *Magnetic resonance imaging as the modern Panopticon: A Foucauldian exploration of power and control in MRI*. Conference abstract, p. 83.


Hewis, J., Currie, G., Hawk, E., & Rohren, E. (2025). *Text-to-image generative artificial intelligence depiction of radiographers and nuclear medicine scientists: A pictorial review*. Conference abstract, p. 80.

Hewis, J., Rossiter, R., & Bramble, M. (2025). *Navigating a research doctorate: A transformative journey*. Conference abstract, p. 35.

Shayne C. (2025). *Transforming Medical Radiation Science Education through Gamification*. Conference abstract

Clare S. (2025). *Enhancing Team Dynamics and Learning Outcomes in Medical Radiation Education Through Group Learning Contracts*. Conference abstract

Staff Successes

 **Bismark's** work has earned notable recognition in the Journal of Medical Imaging and Radiation Sciences, with his article *"Integrating soft skills into medical radiation science curricula: A necessity, not an option"* selected by the journal as the **2025 Editor's Choice Award: Top Commentary**.



Journal of Medical Imaging and Radiation Sciences 56 (2025) 101979

Journal of Medical Imaging and Radiation Sciences
Journal de l'imagerie médicale et des sciences de la radiation
www.elsevier.com/locate/jmir

Commentary

Integrating soft skills into medical radiation science curricula: A necessity, not an option

Bismark Ofori-Mantew

Medical Radiation Science Discipline, School of Dentistry and Medical Science, Faculty of Science and Health, Charles Sturt University, Locked Bag 588 Boonooma Street, Wagga Wagga, NSW, Australia

Shayne's work was selected as Editor's Choice: Top Narrative for 2025 by Journal of Medical Imaging and Radiation Sciences, with his article *"Beyond the Machine: A Radiographer's Tale"*



Journal of Medical Imaging and Radiation Sciences 56 (2025) 101771

Journal of Medical Imaging and Radiation Sciences
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Medical Radiation Sciences Narratives


Beyond the Machine: A Radiographer's Tale

Shayne Chau*

Faculty of Health and Science, School of Dentistry and Medical Sciences, Charles Sturt University, Wagga Wagga, New South Wales, Australia

Tarni and Johnathan's work *"Clinical decision making through game-based learning: Observations within a Radiography Escape Room"* was selected as Editor's Choice: **Top Educational Perspective for 2025** by the Journal of Medical Imaging and Radiation Sciences.

ChatGPT in medical imaging higher education, was the highest cited paper in 2025 across any paper in the Radiography journal in any year. Co-authors included Geoff Currie, Clare Singh, Tarni Nelson, Caroline Nabasenja, Yazan Al Hayek & Kelly Spuur




 **ASMIRT 2026** - Our team has achieved an outstanding success at the ASMIRT Conference 2026 with 12 refereed oral abstracts and 1 poster accepted. Topics include breast imaging, AI, education, patient voices, safe practice, image evaluation, and cancer survivorship. All abstracts will be published in the Journal of Medical Radiation Sciences reflecting the quality and impact of the discipline's research.

Fellowships

Shayne Chau received his Associate Fellow status with ANZAHPE

Journal Editorials

Congratulations to **Johnathan Hewis** for his appointment as an Associate Editor for Radiography Journal, **Shayne Chau** for his appointment as an Associate Editor for Annals of Medicine, Journal of Medical Radiation Sciences and Cancer Control.

-  Clare's PhD. Confirmation of Candidature.
-  Johnathan - teaching executive awards. Associate Editor Radiography Journal.
-  Commission for 'Transforming our Teaching in Radiography: From Theory to Practice'

Due to popular demands, **Shayne's** textbook: *Computed Tomography: A Primer for Radiographers*, has been officially translated to Mandarin



Grants & Honours

Kelly and Shayne were successful in receiving a \$10 000 Seed Funding application from the Intellectual Property and Commercialisation Governance Panel (IPCGP) for a mammography image quality project.

Shayne was successful in receiving \$10,000 in AICF Seed Funding for AI-enabled imaging initiatives in collaboration with colleagues from the School of Computing, Mathematics and Engineering. He also secured \$5,000 from the School of Dental and Medical Sciences (SDMS) Teaching Academy. Shayne has also contributed substantially to major external multidisciplinary bids, including a \$2.3 million Australia's Economic Accelerator (AEA) Innovate application and a \$1.5 million Australian Research Council (ARC) Discovery proposal.

Seeing the unseen: the future of breast cancer diagnostics

Behind Associate Professor Kelly Spuur's work is a belief that women deserve better: better imaging, better access, and better chances of early detection. For over 30 years, she has combined clinical expertise with research leadership to tackle one of the most pressing challenges in women's health: ensuring early, accurate detection of breast cancer for all.

"The better imaging we can do, the more likely we are to find breast cancer before it's too late," Kelly says.

"It doesn't matter how skilled the radiologist or surgeon or oncologist is - if the image isn't of the best possible quality, we've already put that woman at a disadvantage."

uncomfortable for many women and can leave cancers obscured due to overlapping or dense breast tissue.

She is particularly interested in the impact on women's experiences, and the



Kelly was featured in Charles Sturt's Alumni magazine Thrive. The article highlighted her inaugural research examining Australia's first cone beam breast CT unit and her efforts to support BreastScreen Australia workforce through Charles Sturt's Graduate Diploma of Mammography course.

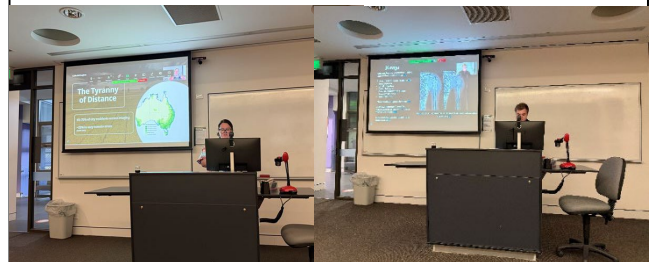
Students' Involvement

ASMIRT Student Paper Night

Charles Sturt University was represented by two students at the NSW Student Paper Night, with Michael Fitzsimmons and Charlotte McCaughan both accepted as oral presenters.



Well done to both of you and a huge congratulations to Charlotte McCaughan, who was awarded Best Medical Imaging Paper for her presentation titled "Left Waiting, Left Behind: The Unmet Necessity for Imaging Equity in Regional and Rural Australia." As part of this achievement, Charlotte has earned the opportunity to attend and present at the 2026 ASMIRT Conference in Hobart. Well done, Charlotte!



Student Lab Sessions – Wagga Wagga



The Diagnostic Radiography Team



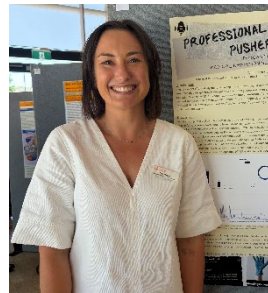
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