

CURRICULUM VITAE

Name: Vivian Hui, RN, BSN, Ph.D.

Business Address: HJ544, School of Nursing
The Hong Kong Polytechnic University
Hung Hom, Hong Kong

Telephone: (+852) 2766-4691
Email: vivianc.hui@polyu.edu.hk

EDUCATION

Undergraduate

| | | | |
|-----------------|--|-------|-------------------------|
| 8/2012 – 8/2016 | The University of Hong Kong Hong Kong | B.S.N | Nursing |
| 2016 | Case Western Reserve University Cleveland, OH | | <i>Exchange program</i> |

Graduate

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|-----------------|---|-------|---------------------------------------|
| 8/2018 – 8/2022 | University of Pittsburgh Pittsburgh, PA, USA | Ph.D. | Nursing (Technology & Informatics) |
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APPOINTMENTS AND POSITIONS

Academic

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|-----------------|--|------------------------------|
| 6/2025 ~ | University of Maribor, Slovenia | Visiting Assistant Professor |
| 4/2023 ~ | University of Pittsburgh School of Nursing Pittsburgh, PA, USA | Adjunct Assistant Professor |
| 9/2022 ~ | The Hong Kong Polytechnic University School of Nursing, Hong Kong | Assistant Professor |
| 8/2018 – 8/2022 | University of Pittsburgh School of Nursing Pittsburgh, PA, USA | Teaching Fellow |
| 8/2018 – 8/2022 | University of Pittsburgh School of Nursing Pittsburgh, PA, USA | Graduate Student Researcher |
| 5/2021 – 8/2022 | University of Pittsburgh School of Nursing Pittsburgh, PA, USA | Graduate Student Assistant |

Non-Academic

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|-----------------|----------------------------------|------------------|-------------------|
| 5/2011 – 8/2011 | Census and Statistics Department | Enumerator | |
| 1/2015 – 6/2015 | Housing Authority | Enumerator | |
| 1/2014 – 6/2015 | Hospital Authority | Nurse Intern | Renal Ward |
| 5/2015 – 8/2015 | Department of Health | Research Intern | Infection Control |
| 8/2016 – 8/2018 | St. Teresa's Hospital, Hong Kong | Registered Nurse | Surgical Ward |
| 8/2019 – 8/2022 | GetWellNetwork, United States | Nurse Fellow | Technology |

9/2021 – 8/2022 Fourth River Solutions, United States Consultant Health Tech

LICENSURE AND CERTIFICATION

7/2016 ~ RN Licensure RNG0002517 Hong Kong
8/2013 ~ First Aid Hong Kong
5/2015 ~ Mental Health First Aid International

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

2016 – present Member, Institute on Violence, Abuse and Trauma
2016 – present Member, Family Violence and Sexual Assault Institute
2016 – present Member, Association of Hong Kong Nursing Staff
2016 – present Member, Hong Kong Society for Nursing Education Limited
2016 – present Scholar and member, Academy of Violence and Abuse (AVA)
2017 – present Member, College of Nursing Hong Kong
2018 – present Nurse leader member, Sigma Theta Tau (Eta Chapter)
2019 – present Member, American Medical Informatics Association (AMIA)
2019 – present Member, International Network for Doctoral Education in Nursing
2019 – present Member, Society of Behavioral Medicine (SBM)

HONORS

2019 – present Fellowship, GetWellNetwork, O’Neil Center University of Pittsburgh Nursing Scholars
2020 – present Scholar, Academy of Violence and Abuse (AVA), United States
2022 – present Podcast social media ambassador, American Medical Informatics Association (AMIA)

SCHOLARSHIPS & AWARDS

2012–2016 First-in-the-family Fund Award, The University of Hong Kong, Hong Kong
2015 Well of Ismael Fund Award, Starr Hall, The University of Hong Kong, Hong Kong
2016 Asia Pacific Young Leaders Award, Hong Kong
2018 Abraham A. Constantino Jr., M.D. Endowed Scholarship, University of Pittsburgh, United States
2019 Enid Goldberg Scholarship, Sigma Theta Tau (Eta Chapter), United States
2020 EduMed Scholarship, EduMed Organization, United States
2020 Margaret E. Wilkes Scholarship Fund Award, University of Pittsburgh, United States
2020 Rose Constantino Nursing Scholarship, University of Pittsburgh, United States
2021 Dr. Constantino Jr. Nurse Scholarship, University of Pittsburgh, United States
2022 PhD scholarship, American Medical Informatics Association (AMIA)
2023 LEAD Early Career Fund Award, American Medical Informatics Association (AMIA)
2024 Outstanding Reviewer Award, American Medical Informatics Association (AMIA)

PUBLICATIONS

Refereed Articles (♦ = data-based; ♠ = role; *corresponding author)

1. Tiwari, A., Cheung, D., & **Hui, V.** (2018). Improving mental health outcomes of Chinese women survivors of intimate partner violence through advocacy interventions. *Global Mental Health* (Cambridge, England), 5, e15. <https://doi.org/10.1017/gmh.2018.5>

2. Constantino, R.E., Angosta, A.D., Reyes, A.T., Kameg, B., Wu, L., Cobb, J., **Hui, V.**, Palompon, D., Safadi, R., Daibes, M. and Schlenk, E. (2019) Is Intimate Partner Violence a Risk Factor for Cardiovascular Disease in Women? A Review of the Preponderance of the Evidence. *Health*, 11, 841-854. <http://doi.org/10.4236/health.2019.116067>
3. ♦ Constantino, R. E., Reyes, A. T., Kregg-Byers, C. M., Braxter, B., Scott, P. W., Cobb, J., **Hui, V.**,...& Palompon, D. R. (2020). Matters of HEARTS: health, experience of abuse, resilience, technology use, and safety of older adults. *Educational Gerontology*, 1-15. <https://doi.org/10.1080/03601277.2020.1757588>
♠ Perform initial data entry, data analysis and partial contribution of manuscript writing.
4. ♦ **Hui, V***, Constantino, R.E. The association between life satisfaction, emotional support, and perceived health among women who experienced intimate partner violence (IPV) – 2007 behavioral risk factor surveillance system. (2021) *BMC Public Health* 21, 641 <https://doi.org/10.1186/s12889-021-10665-4>
5. ♦ Howell, B., Deyo, P., Swartwout, E., Herdman, N., Caldwell, V., Miller, C. H. C., & **Hui, V.** (2021). Impact of Patient Engagement on Tailored Education for Joint Replacement Population Using Technology. *CIN: Computers, Informatics, Nursing* <http://doi.org/10.1097/CIN.0000000000000761>
♠ Perform literature review, data wrangling, data analysis, and involved in manuscript writing.
6. Constantino, R.E., Reyes, A. T., Scott, PW, Petrie-Wyman, J, Carmack, S, Ramos, MD, Palanisamy, B. Cuevas, PEG, Kang, HK, Palompon, DR, **Hui, V.**, Burhart, RE, Allen, LC. (2021) Life Course in HEARTS: Enhancing Telehealth Resilience and Mindfulness Intervention in Older Adults Experiencing Abuse and Trauma—A Conceptualization. *Open Acc J Comp & Alt Med.* (3)1, 303. <http://dx.doi.org/10.32474/OAJCAM.2021.03.000154>
7. ♦ **Hui, V.**, Brazee, R., Rosenzweig, M., Lee YJ. (2022) The Association Between Hormone Receptor Status and End-of-Life Care Among Patients with Metastatic Breast Cancer (MBC). *Clinical journal of oncology nursing*, 26(2), 198–203. <https://doi.org/10.1188/22.CJON.198-203>
8. Constantino, R.E., Allen, L.C., **Hui, V.**, Nitowski, K. M., Kameg, B., Bowser, A. S., Burkart, R E & Braxter, B., (2022) Clinical Judgment Development: Six steps to establish professional identity and role-specific competencies in caring for a sexual assault survivor. *Health*,14,23-37. <http://doi.org/10.4236/health.2022.141002>
♠ In charge of abstract writing, review of content and partial manuscript preparation.
9. ♦ Thanker, K., Chi, Y., Brusilovsky, P., Donovan, H., Klem, ML.,He, D., **Hui, V.**, &Lee YJ. (2021) Understanding article sharing amongst OvCa Patients to enhance Patient-Centric Recommendation Engine. *Journal of Medical Internet Research Cancer* 10.2196/33110. *Advance online publication* <http://doi.org/10.2196/33110>

- ♣ Perform data wrangling, annotation, insights from nursing perspective and prepare partial manuscript.
10. ♦ Chi, Y., Thaker, K., He, D., **Hui, V.**, Donovan, H., Brusilovsky, P., & Lee, Y. J. (2022). Knowledge Acquisition and Social Support in Online Health Communities: Analysis of an Online Ovarian Cancer Community. *JMIR cancer*, 8(3), e39643. <https://doi.org/10.2196/39643>
 11. ♦ Oniani, D., Sreekumar, S., DeAlmeida, R., DeAlmeida, D., **Hui, V.**, Lee, Y. J., ... & Wang, Y. (2022). Toward Improving Health Literacy in Patient Education Materials with Neural Machine Translation Models. American Medical Informatics Association. Informatics Summit 2023. *Conference paper*. arXiv preprint arXiv:2209.06723.
 12. **Hui, V***, Constantino, R. E., & Lee, Y. J. (2023). Harnessing Machine Learning in Tackling Domestic Violence—An Integrative Review. *International Journal of Environmental Research and Public Health*, 20(6), 4984. <https://doi.org/10.3390/ijerph20064984>
 13. ♦ Mahmoud, K., Jian, Z., Kim, D.K., **Hui, V.**, Kitutu, J. (2023) Predictors of first-time NCLEX-RN pass-rate in Accelerated Bachelor of Science in Nursing. *Journal of Nursing Education*, 63(1), 10-16. <https://doi.org/10.3928/01484834-20231112-04>
 14. Rahdari, B., Thaker, K., Birkhoff, S., Brusilovsky, P., Donovan, H., He, D., **Hui, V.**, Luo, Z., Lee YJ., (2022). HELPeR: A Knowledge-Based Patient-Focused Health Recommender System. Conference on Human Information Interaction and Retrieval (CHIIR). *Conference paper* (Accepted)
 15. ♦ Wong AKC, Ng NP, **Hui V**, and Montayre J (2023) Effect of a telecare-based intervention on stress levels in informal caregivers of older adults: protocol for a randomized controlled trial. *Frontiers in Psychiatry*. 14:1167479. <http://doi.org/10.3389/fpsy.2023.1167479>
 16. ♦ Chi, Y., **Hui, V.**, Kunsak, H., Brusilovsky, P., Donovan, H., He, D., & Lee, Y. J. (2024). Women with ovarian cancer’s information seeking and avoidance behaviors: an interview study. *JAMIA open*, 7(1), ooae011. <https://doi.org/10.1093/jamiaopen/ooae011>
 17. **Hui, V***, Eby, M., Constantino R.E., Chang J., Zelazny, J., He. D., Lee. HY., Lee YJ. (2023) Examining supports and advice that women with intimate partner violence experience received in online health communities – text mining approach. *Journal of Medical Internet Research* <http://doi.org/10.2196/48607>
 18. ♦ Williams, K., **Hui, V.**, Ross. M., Zamanzadeh, J. D., Nguyen, V., Khan, Z., Chapman, W.W., Grando, A., You, K.L., Murcko, A., Warsame, L., Ingram, W., Harman, T., Grando, A. (2023) Empowering Diversity: Driving Inclusivity by Leveraging the American Medical Informatics Association's “For Your Informatics” Podcast" *Journal of the American Medical Informatics Association Open*. <http://doi.org/10.1093/jamiaopen/ooae072>

19. O'Connor, S., Peltonen, LM., Topaz, M., Chen, LYA., Michalowski, M., Ronquillo, C., Stiglic, G., Chu, C.H., **Hui, V.**, Denis-Lalonde, D. (2023) Prompt engineering when using generative AI in nursing education. *Nurse Education in Practice*. <https://doi.org/10.1016/j.nepr.2023.103825>
20. Zhang, B., Guo, C., **Hui, V.**, Wong, KP., Liu, Y., Liu, Z., Xu, Y., Xiao, Q., Chen, SC., Qin, H. (2023) Evaluating the effectiveness of video-game based swallowing function training in patients with dysphagia: study protocol for a randomized controlled trial. *Trials*, 24(1),735. <https://doi.org/10.1186/s13063-023-07738-7>
21. Wong, A.K.C., Tso, W.C., Su, J.J., **Hui, V.**, Chow, K.S.K., Wong, S.M., Wong, F.K.Y.(2023) Effectiveness of support from community health workers on the sustained use of a wearable monitoring device among community-dwelling older adults: A randomized trial protocol. *PLOS ONE* 18(12), e0294517. <https://doi.org/10.1371/journal.pone.0294517>
22. **Hui, V***, Zhang, B., Jeon, B., Wong, A.K.C., Klem, ML., Lee, YJ. (2024) Harnessing health information technology in domestic violence in the United States – a scoping review. *Public Health Reviews* 45:1606654. <http://doi.org/10.3389/phrs.2024.1606654>
23. ♦ Zhang, B., Wong, A.K.C., Constantino, R.E., **Hui, V***. (2024) The association between psychological distress and abusive experiences among people with intimate partner violence. *BMC Public Health* 24, 1060 (2024). <https://doi.org/10.1186/s12889-024-18350-y>
24. ♦ Zhang, B., Liu, Y., Liu, Z., **Hui, V.**, Xian, Q., Qin J. (2024) Technology acceptance of the video-game based swallowing function training system among healthcare providers and dysphagia patients: a qualitative study. *Digital Health*. (Accepted)
25. Constantino, R.E., Braxter, B, J., **Hui, V.**, Cutamora, J, Garcia, L., Palompon, D., Thimsen, K., Kameg, B,N., Zalon, M.L., (2024) Resilience, the 6th vital sign: conceptualizing, contextualizing, and operationalizing all six vital signs. *Health*, 16, 657-673. <http://doi.org/10.4236/health.2024.167046>.
26. ♦ Wong, A.K.C., Bayuo, J., Su, J.J., Wong, F.K.Y., Chow, K.K.S., Wong, B.P., Wong, S.M., **Hui, V.** (2024). Effectiveness of the Support from Community Health Workers and Health Care Professionals on the Sustained Use of Wearable Monitoring Devices Among Community-Dwelling Older Adults: Feasibility Randomized Controlled Trial. *Journal of Medical Internet Research*, 26, e52435. <https://doi.org/10.2196/52435>.
27. ♦ Zhang, B., Wong, K.P., Liu M., **Hui, V.**, Guo, C., Liu, Y., Liu, Z., Liu, Y, Xiao, R., Qin, J. (2024) Face recognition-driven video game for dysphagia rehabilitation in stroke patients: a pilot randomized controlled trial. *Archives of Physical Medicine and Rehabilitation*, 106(3), 342-350.
28. ♦ Guan, SW., **Hui, V***, Stiglic, G., Constantino R.E., Lee, Y.J., Wong, A.K.C. (2024) Predicting the Information Needs for Domestic Violence Survivors Based on the Fine-tuned Large Language Model. *Journal of Medical Internet Research* (Accepted, in press)

29. ♦ Wong, A.K.C., Zhao Y., Lu Q., Yang S., **Hui, V.**, Lee, HT. (2024) Exploring Older Adults' Perspectives and Acceptance of AI-Driven Health Technologies: A Qualitative Study. *JMIR Aging*, 8, e66778. <https://doi.org/10.2196/66778>
30. ♦ Zhang, B., Wong, K. P., Liu, M., **Hui, V.**, Guo, C., Liu, Z., Liu, Y., Xiao, Q., & Qin, J. (2024). Effect of artificial intelligence-based video-game system on dysphagia in patients with stroke: A randomized controlled trial. *Clinical nutrition (Edinburgh, Scotland)*, 45, 81–90. Advance online publication. <https://doi.org/10.1016/j.clnu.2024.12.022>
31. ♦ **Hui, V***, Tian, L., Tsang, R., Tsui, K., Zhang, B., Wong, A.K.C., Constantino R.E. (2025) Barriers and facilitators of online help-seeking behaviors among people with domestic violence experience: A qualitative study. *PLoS One*. (Submitted)
32. ♦ **Hui, V***, Zabala, J., Eby, M., Constantino R.E., Chang J., He. D., Lee. HY., Lee YJ. (2025) The help-seeking behaviors among women experienced intimate partner violence in online health communities – a thematic analysis. *PLoS One* (Submitted, under review)
33. ♦ Ho, CM., Guan S., Mok P., Lam C., Ho W.Y., Mak, C., Qin, J, **Hui, V*** (2025) Leveraging Large Language Models to develop and validate chatbot for Neurosurgery. *JMIR* (Submitted, under review)
34. ♦ **Hui, V***, Eby, M., Zhang, B., Chang, J., Constantino R.E., Lee Y.J., (2024) Exploring website resources shared in response to help-seeking posts of various characteristics by women with intimate partner violence (IPV) experiences in online health communities (OHCs). *Journal of Medical Internet Research Public Health and Surveillance*. (Submitted)
35. ♦ **Hui, V***, Tian, L., Perlle C., Tsang, R.(2025) Quality of online health information about domestic violence from Chinese websites in Hong Kong. *Journal of Medical Internet Research public health and surveillance* (In progress)

Journal articles under review

1. O'Connor, S., Peltonen, LM., Ronquillo, C., Chu, C.H., Topaz, M., Chen, LYA., **Hui, V.**, Lee, JJ. (2023) A Framework for Embedding Artificial Intelligence in Nursing: Education, Innovation, Collaboration, and Implementation – the ALIGN Model. *Nurse Education in Practice* (Submitted, under review)
2. ♦ Palompon, D., E., Reyes., Garcia, L., Cutamora, Jezyl., **Hui, V.**,...& Constantino, R. E., (2022) HEARTS Matters: The Moderation and Mediation Effects of Resilience, Experience of Abuse and Technology in Older Persons. *BMC Geriatrics* (Revised, pending result)
♠ Perform data entry, data interpretation and review of the manuscript.

3. ♦ **Hui, V***, Swartwout, E. (2024) How the medical treatment experience affect the capacity of engagement in healthcare among adolescents. *Patient Experience Journal* (Submitted, under review)
4. Zhou, L., Gao, X., Wang, S., **Hui, V.**, Jin, S., Xiao, Q. (2023) The management of acquired swallowing disorders in ICU patients: Summary of best-evidence practiced strategies. *Journal of Clinical Nursing* (Submitted, under review)
5. Zhou, L., Gao, X., Wang, S., Jin, S., Xiao, Q. **Hui, V*** (2023) Efficacy of conventional rehabilitation robot and bio-signal feedback based rehabilitation robot on upper limb function in patients with stroke: A systematic review and network meta-analysis. *Clinical Rehabilitation* (Submitted, under review)
6. ♦ Wong, A.K.C, Bayuo, J., Ng, NP., Yau, M.M.C., Yu, S,K.T., Lau, H.C., Lin, R.S.Y., Su, J.J., **Hui, V.**, Montayre, J. (2023) Effectiveness of a telecare-based intervention programme in supporting informal caregivers of community-dwelling older adults in reducing stress levels: a randomized controlled trial. *International Journal of Telemedicine and Applications* (Submitted, under review)
7. **Hui, V***, O'Connor, Carrrol., W. (2024) Leveraging pitching workshop to facilitate healthcare innovation in nursing informatics education. *Nurse Education in Practice* (Editorial)
8. ♦ **Hui, V***, Chi, Y., Thaker, K., Wang Y.J, Donovan, H., Brusilovsky, P., He, D., Lee YJ. (2024) Ovarian Cancer Patients and Caregivers' Information needs and perceived disease knowledge across different illness trajectories. *International Journal of bioinformatics* (Submitted)

Journal articles in preparation

1. ♦ **Hui, V***, Zhang, B., Feng, X, Xiao, Q., O'Connor, Chan, K., Chan, E.A. (2024) The attitudes towards learning pitching competence to improve communication skills among nursing undergraduate students for healthcare innovation. *Nurse Education in Practice* (In progress)
2. ♦ **Hui, V***, Guan, S., O'Connor, Wong, A.K.C., Stiglic, G., (2024) Leveraging large language models to develop automatic AI system for facilitating innovation in healthcare education. *Nurse Education in Practice* (In progress)
3. ♦ **Hui, V***, Guan, S, Stiglic, G., (2024) Using AI for emotional support classification among women with abusive experiences. *JAMA Network Open* (In progress)
4. ♦ **Hui, V***, Guan, S, Law, Y.K., Stiglic, G., (2025) Leveraging GraphRAG to develop chatbot for domestic violence patients.
5. ♦ **Hui, V***, Guan, S, Law, Y.K., Stiglic, G., (2025) RAG to develop Nursing chatbot for clinical use.
6. ♦ Thaker, K., Rahadari, B., Luo, Z., Wang Y.J., Kim, J.E., **Hui, V.**, Brusilovsky, P., H., He, Donovan, D., Lee, YJ. (2023) *HELPeR*: A Patient-Focused Health Recommender. Data driven and expert feedback-based design decisions and implications. *Journal of American Medical Informatics Association*. (In progress)

7. ♦ **Hui, V*.,** Thaker, K., Rahdari, B., Wang, Z., Brusilovsky, P., Donovan, H., Klem, ML., He, D.,...& Lee YJ. (2025) Persona building for information seeking behavior among OvCa patients in online health communities. *Journal of Medical Internet Research* (In progress)
8. ♦ **Hui, V*.,** Constantino, R.E., Lee, Y.J. (2025) Examining supports and advice that women with intimate partner violence experience received in Chinese online health communities – text mining approach. *Journal of Medical Internet Research* (In progress)
9. ♦ **Hui, V*.,** Zhang, B., Eby, M., Serrano, D., Wong, A.K.C., Lee, Y.J. (2023) Comparison between linguistic features from help-seeking postings among women with intimate partner violence in online health communities – text mining approach. *Journal of Medical Internet Research* (In progress)
10. ♦ **Hui, V*.,** Feng, X., Zhang, B. (2024) Nursing students' perspectives on health information technology (HIT), artificial intelligence (AI), and ChatGPT: a cross-sectional study. *Nursing education in Practice*. (In progress)
11. ♦ **Hui, V*.,** Tian, L., Feng, X., (2025) Attitudes of healthcare professionals on artificial intelligence.
12. ♦ **Hui, V*.,** Constantino, RE. (2024) Evaluating artificial intelligence responses to domestic violence questions and feedback from survivors. *JAMA Network Open* (In progress)
13. ♦ **Hui, V*.,** Tsang, R., Tsui, K., Constantino, RE. (2024) What are the topics that people with domestic violence experiences discussed on online forums in Hong Kong, a text-mining approach. *Journal of Medical Internet Research* (In progress)
14. **Hui, V*.,** Constantino, RE. (2024) Leveraging large language models in promoting help-seeking behaviors among domestic violence survivors. *JAMA Network Open* (In progress)

Books and Book Chapters

Hui, V., Constantino, RE. (2024) Forensic Nursing. *From algorithms to empathy: machine learning in forensic nursing for intimate partner violence* (pp. 234-260). Davis Company. (In press)

Published Abstracts (Peer-reviewed)

1. **Hui, V.,** Scott, P., Ren, D., Constantino, R.E. The HEARTS of Older Persons in Pittsburgh, PA and the Philippines: A Global Collaboration. Asian American/Pacific Islander Nurses Association & Taiwan Nurses Association Joint International Conference: Changes in Nursing Research, Education, and Practice: From Local to Global. Symposium presentation. August 2019, Taichung, Taiwan.
2. **Hui, V.,** Jeon, B., Klem, ML., Lee, YJ. Harnessing health information technology in intimate partner violence in the United States. American Medical Informatics Association 2019 Annual

Symposium. Poster Presentation. November 2019. Washington D.C.

3. **Hui, V.**, Constantino, R.E. The association between life satisfaction, emotional support, and perceived health among Intimate Partner Violence (IPV). Academy of Violence and Abuse, Virtual Global Health Summit 2020. Short Paper, Oral Presentation.
4. Wang, Z., Brusilovsky, P., Donovan, H., **Hui, V.**, Klem, ML,.....&Lee YJ. Machine learning based iterative annotation system for ovarian cancer articles. American Medical Informatics Association 2020. Virtual Annual Symposium. Poster Presentation. November 2020.
5. **Hui, V.**, Wang Z, Lee, YJ. ‘What can online Ovarian Cancer Forum present us about patients’ information needs? - A Text-Mining Approach’. American Medical Informatics Association 2021 Virtual informatics summit. Poster presentation. March 2021.
6. Chi, Y., **Hui, V.**, Kunsak, H., Brusilovsky, P., Donovan, H., He, D., Lee, YJ. ‘Challenges of ovarian cancer patient and caregiver online health information seeking’. Association for Information Science and Technology Annual Meeting 2021. Salt Lake City, UT, USA. Poster presentation. October 2021.
7. Thaker, K., Birkhoff, S., **Hui, V.**, Lee, YJ., Brusilovsky, P., He, D. ‘Towards building a recommender system: analyzing resource sharing on an online ovarian cancer community’. American Medical Informatics Association 2021. Annual Symposium. Virtual. Poster Presentation. November 2021.
8. **Hui, V.**, Zabala, J., Eby, M., Constantino R.E., Chang J., Lee, HY., He, D., Lee, YJ., “The Help-seeking Behaviors Among Women with Intimate Partner Violence Experiences Expressed in Online Health Communities”. Academy on Violence and Abuse 2022. Global Health Summit. Austin, TX, USA. October 2022.
9. Scott, R., Chao, C.Y., Wang Z.D., Luo Z., **Hui, V.**, Donovan, H., Brusilovsky, P., He, D., Lee, YJ. “Identifying most common concerns of ovarian cancer caregivers reported in online health communities (OHCs). National Conference on Undergraduate Research 2023. Poster. UW-Eau Claire, USA. April 2023.
10. **Hui, V.**, Zabala, J., Eby, M., Constantino R.E., Chang J., Lee, HY., He, D., Lee, YJ., “Association between linguistic features and help-seeking among women with intimate partner violence in online health communities (OHCs)”. American Medical Informatics Association 2023. Informatics Summit. Seattle, WA, USA. Poster Presentation. March 2023.
11. **Hui, V.**, Eby, M., Constantino R.E. “Examining supports provided to women with intimate partner violence experiences expressed in online health communities”. Academy on Violence and Abuse 2023. Global Health Summit. Short paper. Salt Lake City, UT, USA. September 2023. (Accepted)

12. Thaker, K., Luo Z., **Hui, V.**, Donovan, H., Brusilovsky, P., He, D., Lee, YJ. “Walk a Mile in Their Shoes: Using Personas to obtain Health Professional Perspectives for an Ovarian Cancer Patient-Focused Recommender System” American Medical Informatics Association 2023 Annual Symposium. Poster Presentation. New Orleans, USA. November 2023.
13. **Hui, V.**, Chi, Y., Thaker, K., Donovan, H., Brusilovsky, P., He, D., Lee, YJ. “Towards building a recommender system: Ovarian cancer (OvCa) patients and caregivers' information needs and perceived disease knowledge across different illness trajectories” American Medical Informatics Association 2023 Annual Symposium. Poster Presentation. New Orleans, USA. November 2023.
14. **Hui, V.**, Thaker, K., Donovan, H., Brusilovsky, P., He, D., Lee, YJ. Towards building an E-Librarian System: Exploring Recommendation System Preferences Among Ovarian Cancer Patients and Caregivers. Nursing Informatics Conference 2024. Poster Presentation. Manchester, UK. July 2024
15. **Hui, V.**, Guan, S., Zhang, B., Lee, YJ., Constantino, R.E. Predicting the Information Need For Domestic Violence Survivors Based on the Fine-tuned Large Language Model. Nursing Informatics Conference 2024. Poster Presentation. Manchester, UK. July 2024
16. Zhang, B., Guo, C., Wong, KP., Liu, Y., Liu, Z., Xiao, Q., Qin, J., **Hui, V.** Technology acceptance of the video-game based swallowing function training system among healthcare providers and dysphagia patients: a qualitative study. Nursing Informatics Conference 2024. Manchester, UK. July 2024.
17. Guan S., Zhang, B., Tsang, R., Wong, A., Constantino, R.E., **Hui, V.** Predicting the Information Needs for Domestic Violence Survivors Based on the Fine-tuned Large Language Model. American Medical Informatics Association 2024 Annual Symposium. Poster Presentation. San Francisco, USA. November 2024. (Accepted)
18. Yang, Y., Tsang R., Tsui K., Guan, S., Wong A.K.C., Constantino, R.E., **Hui, V.** Combining Word2Vec and Convolutional Neural Network for Emotional Support Classification Among Women with Abusive Experiences. American Medical Informatics Association 2024 Annual Symposium. Poster Presentation. San Francisco, USA. November 2024. (Accepted)
19. Zhang, B., Liu, Y., Liu, Z., **Hui, V.**, Xian, Q., Qin, J. Effectiveness of Video-game Based Swallowing Function Training in Patients with Dysphagia: A Pilot Randomized Controlled Trial. American Medical Informatics Association 2024 Annual Symposium. Podium Oral Presentation. San Francisco, USA. November 2024. (Accepted)
20. Tsang, R., Eby, M., Zhang, B., Constantino, R.E., **Hui, V.** Evaluation of the Quality of Online Health Information for Domestic Violence Circulated in Online Health Communities. American Medical Informatics Association 2024 Annual Symposium. Poster Presentation. San Francisco, USA. November 2024. (Accepted)

21. Yu, Z., Tian, L., **Hui, V.** Detection of Information Seeking Posts from Domestic Violence Victims Online: In-Context Code-Mixing for Cantonese. Poster Presentation. MedINFO, Taiwan. August 2025 (Under review)
22. **Hui, V.**, Law, Y.K., Feng X., Tian, L. Comparison between GraphRAG Large Language Model and manual thematic analysis in identifying topics on interview transcripts in domestic violence. MedINFO, Taiwan. August 2025 (Under review)
23. Guan, S., Ho, C.M., **Hui, V.** Leveraging large language models to develop and validate NeuroBot in a clinical setting. Poster Presentation. MedINFO, Taiwan. August 2025 (Under review)

RESEARCH

Research Grants (Funded as Principal Investigator)

- Type: External Donation for Research 4/2025 – 4/2026
Funding Agency: Drip Music Limited Company
Title: Exploring the Impact of Community-based Music Co-Creation Project on Cancer Screening Awareness and Mental Health
Award: HKD 10,000
- Type: Chinese Medicine Development Fund – B2 6/2024 – 6/2026
Funding Agency: Chinese Medicine Development Fund
Title: Exploring the Chinese Medicine help-seeking behaviors and online health information seeking behaviors among young people in Hong Kong
Award: HKD 1,007,309.20
- Type: Departmental Fund 7/2024 – 12/2025
Funding Agency: The Hong Kong Polytechnic University
Title: Development and effects of AI-chatbot to reduce the fear of cancer recurrence among adolescents and young adult (AYA) cancer survivors – a feasibility study
Award: HKD 350,000
- Type: Start up Fund and Matching Fund 1/2023 – 1/2026
Funding Agency: The Hong Kong Polytechnic University
Title: Exploring the online help-seeking and health information-seeking behavior among women with domestic violence experiences in Hong Kong
Award: HKD \$400,000
- Funding Agency: University of Pittsburgh 8/2021 – 8/2022
Title: Exploring help-seeking behavior among women with domestic violence experiences in online health communities
Award: USD \$2500
- Type: Margaret E. Wilkes Scholarship Fund Award 7/2020 – 8/2021
Funding Agency: Center for Research and Education, University of Pittsburgh
Title: Leveraging text mining to understand resilience in domestic violence.
Award: USD \$550

Research Grants (Funded as Co-Investigator)

Type: Donation for Research (MHRC) 3/2023 – 2/2028
Funding Agency: Seal of Love Charitable Foundation
Title: Resilient Students Training Hub (ReST Hub): Creating a strengths-based, trauma-informed mental health promotive ecosystem and enhancing student resilience in tertiary education settings
Award: HKD \$13,053,902

Type: Departmental Fund (PI: Dr. Arkers Wong) 9/2024 – 2/2026
Funding Agency: The Hong Kong Polytechnic University
Title: Combining machine learning and ecological momentary assessment of depression, cognitive function and daily activity behaviour to support self-management for post-stroke patients: a feasibility study
Award: HKD \$350,000

Research Grants (In progress)

Role: Principal Investigator **Score: 3.5/5**
Type: Early Career Scheme
Funding Agency: Hong Kong Research Grants Council
Title: Development of an AI-assisted prediction model and theoretical model to understand the help-seeking among women with domestic violence experiences in online health communities - Machine Learning approach
Award requested: HKD 1,031,871

Role: Principal Investigator **Score: 2/4**
Type: Telehealth and advanced technology
Funding Agency: Health Medical Research Fund (HMRF), HKSAR
Title: Building an explainable AI model to transform the detection of intimate partner violence in hospitals – a multimodal approach
Award requested: HKD 1,491,000

Role: Principal Investigator
Type: Health Sciences Bridge Fund
Funding Agency: University of Pittsburgh, PA, USA
Title: Explore the association between epigenetics and domestic violence in Hong Kong
Award requested: USD 30,000

Collaborative Research Grants (In progress)

Role: Principal Investigator
Type: External Collaborative Research Project
Funding Agency: Caritas Family Crisis Center (Li Ka Shing Foundation)
Title: Development of an AI-assisted screening chatbot to prioritize cases with family crisis
Award requested: HKD 250,000

Dissertation

Role: Principal Investigator 8/2021~ 8/2022
Title: Understanding the help-seeking behavior among domestic violence survivors on online health communities

Additional Research Activities

Role: Graduate Student Researcher Dates: 10/2019 ~
(PI, Young Ji Lee, PhD, RN)
Type: R01(Identifier: 1R01LM013038-01A1)
Funding Agency: National Library of Medicine (NLM)
Title: Development and implementation of a health E-Librarian with personalized recommender (HELPeR)

Role: Graduate Student Researcher Dates: 10/2019 -8/2022
(PI, Young Ji Lee, PhD, RN)
Type: The Center for Research and Evaluation Pilot/Feasibility Study Program
Funding Agency: School of Nursing, University of Pittsburgh
Title: Development of computational model to predict patients who are at risk for poor quality of death in metastatic breast cancer (MBC)

Role: Graduate Student Researcher Dates: 8/2018 - 4/2019
(PI, Rose E. Constantino, PhD, RN, JD, FAAN, FACFE)
Funding Agency: University of Pittsburgh David Berg Center for Leadership and Ethics.
Title: Assessing the HEARTS (Health, Experience of Abuse, Resilience, Technology use, Safety) of Older Persons in the Pittsburgh Area

Role: Nurse Fellow Dates: 9/2019 - 8/2022
(PI, Ellen Swartwout, PhD, RN, NEA-BC)
Funding Agency/ Organization: GetWellNetwork, Washington D.C., United States
Title: Impact of patient engagement on tailored education for joint replacement population using technology
Title: Assessing medical treatment experience and the capacity of engagement in healthcare among adolescents.

Independence Study

Role: Graduate student researcher Dates:5/2020 -12/2020
Project: Leveraging text mining to understand the needs of ovarian cancer patients on online forums
Advisor: Dr. Young Ji Lee, PhD, RN (School of Nursing, University of Pittsburgh)

Role: Graduate student researcher Dates: 5/2021- 8/2021
Project: Applying computational discourse analysis to understand the empowerment process of domestic violence survivors on social media

Advisor: Prof. Carolyn Rosé, PhD (Language Technologies Institute, School of Computer Science, Carnegie Mellon University)

Medical Informatics Research Activities

Role: Member

Frequency: Weekly

Name: Medical informatics research subgroup, Language Technologies Institute, School of Computer Science, Carnegie Mellon University

Role: Member

Frequency: Every other week

Name: Pitt-CMU Medical Informatics Colloquium (PCMIC), University of Pittsburgh and Carnegie Mellon University

PRESENTATIONS

1. Cheung, D., Tiwari, A., **Hui, V.** Usability testing of a smartphone application for delivering qigong training. Academy of Violence and Abuse, Global Health Summit. Oral Presentation. South Carolina, United States. November 2016.
2. Thompson, M., **Hui, V.**, Zang K. Measuring Youth Resilience Across Cultures' and 'Implementing Protective Factors to Increase Resilience in Community, Counseling, and Healthcare Settings. Academy of Violence and Abuse, Global Health Summit. Oral Presentation. Tallahassee, Florida, United States. November 2018.
3. **Hui, V.**, Constantino, R.E. Harnessing Email Text Messaging to Deliver HELP Globally to Women in Intimate Partner Violence. Hong Kong 8th International Nursing Forum cum International council on women's health issue congress. Oral Presentation. Hong Kong. December 2018
4. **Hui, V.**, Constantino, R.E. The Association between the experience of abuse and the sleep quality of older adults. Society of Behavioral Medicine. Annual meeting. Poster Presentation. March 2019, Washington, DC.
5. **Hui, V.**, Tsang, R., Tsui, K., "Nursing students' perspectives on health information technology (HIT), artificial intelligence (AI), and ChatGPT: a cross-sectional survey" Yonsei International Nursing Conference (YINC). Poster Presentation. Seoul, Korea. October 2023. (Accepted)
6. Eby, M., **Hui, V.*** "Exploring website resources shared within online health communities (OHCs) in response to help-seeking posts by women with intimate partner violence (IPV) experiences." International Forum on Research Excellence, Sigma Xi Conference. Oral Presentation. Long Beach, CA, United States. November 2023.
7. Serrano, D., **Hui, V.** "Thematic analysis on unsuccessful help-seeking posts among women with intimate partner violence experiences in online health communities." International Forum on Research Excellence, Sigma Xi Conference. Oral Presentation. Long Beach, CA, United States.

November 2023.

8. Tsui, K., Constantino, R., **Hui, V.** “The Help-Seeking Behaviors Among Women with Domestic Violence Experiences Expressed in a Chinese Online Health Community: Thematic Analysis.” Poster presentation. East Asian Forum of Nursing Scholars. Hong Kong. March 2024.
9. Tsang, R., Constantino, R., **Hui, V.** “Quality of Online Health Information About Domestic Violence in Hong Kong” Poster presentation. East Asian Forum of Nursing Scholars. Hong Kong. March 2024.
10. **Hui, V.**, Guan, S., O’Connor, S., Chan, E.A. Leveraging Large Language Models to develop automatic grading and feedback system for supporting nursing student pitching skills in healthcare innovation. Poster presentation. International Congress Nursing. Helsinki, Finland, June 2025. (Accepted)
11. Feng, X., Zhang, B., O’Connor, S., Chan, K., Chan, E.A., **Hui, V.** The attitudes towards learning pitching competence to improve communication skills among nursing undergraduate students for healthcare innovation. Poster presentation. International Congress Nursing. Helsinki, Finland, June 2025. (Accepted)
12. Zhang, B., **Hui, V.**, Liu Y., Liu, Y., Xian, Q., Qin, J. Effects of artificial intelligence-based video-game system on dysphagia in patients with stroke: A randomized controlled trial. Poster presentation. International Congress Nursing. Helsinki, Finland, June 2025. (Accepted)

Invited Guest Speakers (Local, Regional and International level)

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| Event: Technological Innovations in healthcare education research symposium | 13/12/2024 |
| <u>Title:</u> Leveraging AI in healthcare | |
| Event: AMIA Annual Symposium, San Francisco, USA | 11/11/2024 |
| <u>Title:</u> Generation AI: Training Informaticians for Ethical and Informed Use of AI in Healthcare | |
| Institution: Kowloon Hospital, Hospital Authority, Hong Kong | 5/10/2024 |
| <u>Title:</u> Use of ChatGPT and AI in healthcare | |
| Institution: Mindanao State University College of Health Sciences, Philippines | 6/10/2024 |
| <u>Title:</u> Systematic review, Nursing Informatics and AI Technologies | |
| Event: National Nursing Informatics Conference, Beijing | 26/10/2024 |
| <u>Title:</u> Generative AI in Nursing care | |
| Event: STEM workshop, Tseung Kwan O Government Secondary School, HK | 20/10/2023 |
| <u>Title:</u> Nursing Informatics and AI in healthcare (Keynote speaker) | |
| Event: Career Exploration Day, Tseung Kwan O Government Secondary School, HK | 20/10/2023 |
| <u>Title:</u> From Zero to one, from one to infinity (Keynote speaker) | |

Other Scholarly Activities

Journal/Conference Reviewer

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| Board member | Artificial Intelligence in Medicine (Q1, IF: 6.1) *starts from 2025 |
| Guest Editor | Nurse Education in Practice (special issue on AI) (Q1, IF: 3.4) *starts from 2025 Discover Public Health (formerly Emerging themes in Epidemiology) |
| Editor | Applied Clinical Informatics *starts from 2025 |
| Reviewer | American Medical Informatics Association (AMIA) Annual Conference American Medical Informatics Association (AMIA) Informatics Summit <i>BMC Medical Informatics and Decision Making, Trauma, Violence, & Abuse, , BMC Nursing, SAGE open Medicine, Qualitative Health Research, Digital Health, Journal of Medical Internet Research, BMC Public Health, BMJ Nursing, JMIR Public Health and Surveillance, BMJ Health and Care Informatics, PLOS ONE, Journal of Nursing Doctoral Students Scholarship</i> |

Undergraduate Student Research Mentoring

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|-------------|---|
| 2019 – 2020 | Gillian Marie Tocheny, Undergraduate Research Mentorship Program |
| 2020 – 2022 | Molly Lunney, Undergraduate Research Mentorship Program |
| 2020 – 2021 | Hannah Kunsak, NLM R01 Research Project |
| 2021 Summer | Adriana Rush, NLM R01 Research Project |
| 2021 Summer | Jordan Eckrote, GSA Research Project |
| 2021 Summer | Madelyn Kenepf, GSA Research Project |
| 2022 Spring | Julieta Zabala, Undergraduate Research Mentorship Program, Dissertation |
| 2022 Spring | Emily Goon, Undergraduate Research Mentorship Program, Dissertation |
| 2022 Spring | Jaspreet Kandola, Summer Research Mentorship Program, Dissertation |
| 2022 ~ | Malavika Eby, Summer Research Mentorship Program, Dissertation |
| 2022 ~ | Doris Serrano, Volunteer research affiliation program Udochi Onuegbu, Volunteer research affiliation program |
| 2023 ~ | Rosanna Tsang, PolyU undergraduate research student Karen Tsui, PolyU undergraduate research student Zhengyu Zhang, PolyU undergraduate research student YiQing Yang, PolyU undergraduate research student Shaowei Guan, PolyU undergraduate research student |

Career Student mentoring

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| 2017 ~ | Lee Nga Chui, Hong Kong Neighborhood and Workers' Education Center (Child Development Fund Project) |
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Postgraduate Research Mentoring

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|--------|---|
| 2022 ~ | Bohan Zhang, RN (PhD candidate) |
| 2023 ~ | Kalok Lau (MSc in health informatics) |
| 2024 ~ | Xinyu Feng, RN (PhD student) |
| 2024 ~ | Chung Siu Him Brian (Doctoral of Health Sciences) |

TEACHING

The Hong Kong Polytechnic University

2024 – 2027 The Mentorship Scheme for Teaching Excellence

Course Lecturer

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|--------|---|--------------------|
| SN2331 | Information, communication and technology in Nursing | Class size: 280 UG |
| SN1221 | Artificial Intelligence and Data Analytics in Nursing | Class size: 310 UG |
| SN435 | Honors Project | Two groups 20 UG |
| SN5106 | East Meets West: Nutritional Approach | Class size: 70 PG |

Doctoral Thesis Supervision

The Hong Kong Polytechnic University, Hong Kong SAR

Doctor of Philosophy

Student: Ms. Zhang bohan, RN

Title: Effectiveness of video-game based swallowing function training in patients with dysphagia: a randomized controlled trial.

Master of Science in Health informatics

Student: Mr. Lau Ka Lok

Title: Large Language model (LLM) for medical consultation and clinic triage in A&E.

Doctoral Thesis Committee Member

Doctor of Health Science

Student: Mr. Ho Siu Cheong (Traditional Chinese Medicine practitioner)

Title: Tongue diagnosis of traditional Chinese medicine via advanced computer vision techniques.

Student: Ms. Fok See Kee, RN

Title: A quasi-experimental study to evaluate the new initiative infrared bed exit sensor with voice prompts message (Luna cat) in detecting the patient unintentionally exit the bed and prevent the potential in-patient falls in one Hong Kong private hospital.

Doctor of Philosophy

Student: Ms. Yang Qingling

Title: Migraine clinical features and white matter hyperintensities: AI-based technologies application in migraine feature assessment, management and association exploration.

Western Sydney University, Australia

Master of Research in Nursing

Student: Harshani Tharika Senanayake, RN

Title: Experience of violence against nurses in geriatric wards in a tertiary hospital: A qualitative study of nurses

University of Pittsburgh School of Nursing

Teaching Assistant

- 2018 NUR0087 Nursing Pharmacology I (BSN program)
2019 NUR0080 Foundations of Nursing Practice 1 (BSN program)
2020 NUR0081 Foundations of Nursing Practice 2 (Accelerated 2nd Degree BSN program)

Teaching Fellow

- 2022 NUR0080 Foundations of Nursing Practice 1 (BSN program)

RELEVANT SKILLS

- Research method:** Interview, Statistical analysis, Survey design, Usability testing, Persona Content analysis, Focus group, Discourse analysis, Computational method (Topic modeling, Sentiment analysis, Network analysis, Cluster analysis)
Language: Cantonese, English, Mandarin, Spanish (basics)
Software: SPSS, NVivo, Protégé, R Studio, Anaconda Jupyter, Canva, Premiere, Tableau
Programming: Python, R
Data Mining: Numpy, Pandas (Data analysis), Scipy (Statistics), Scrapy (Web scraping), NLTK, spaCy (Natural Language Processing), scikits-learn (Machine learning)

SERVICE

Graduate Student Assistant

- 2019 Project: Kazakhstan Nursing Curriculum Work Group
Head of Project: Jacqueline Dunbar-Jacob, PhD, RN, Dean,
School of Nursing, University of Pittsburgh
- 2021 Project: The predictors for 2nd degree nursing students to pass NCLEX-RN
Head of Project: Julius M. Kitutu, PhD, Associate Dean,
School of Nursing, University of Pittsburgh

The Hong Kong Polytechnic University

- 2023 – MSc in Health informatics Programme Committee Member
2023 – Department Research Committee Member
2025 – MSc Specialty Coordinator – AI in Nursing & Healthcare

University of Pittsburgh School of Nursing

- 2020 – 2022 Committee member
Dean's Distinguished Teaching Award for Tenure and Appointment Stream

Government Committee

- 2018 ~ 2024 Appointed advisory committee member
Prevention and Control of Non-Communicable Diseases
Health Bureau, HKSAR
- 2023 ~ 2026 Appointed advisory committee member
Advisory Council on Food and Environmental Hygiene
Environment and Ecology Bureau, HKSAR

2024 ~ 2026 Appointed advisory committee member
Working Group on Application of Technological Solutions for Enhancing Environmental
Hygiene, Environment and Ecology Bureau, HKSAR

2025 ~ 2027 Appointed advisory committee member
Joint Committee for Student Finance, Labour and Welfare Bureau, HKSAR

Healthcare Organization Committee

2023 ~ 2024 Appointed Medical Expertise Committee Member
Youth Cancer Hong Kong

2023 ~ 2026 Nursing Informatics External Consultant
Hospital Authority, Hong Kong

2024 ~ 2028 International Medical Informatics Association (IMIA)
Nursing Informatics Education Advisory Panel