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SCHOLARSHIP / RESEARCH

C-1. REFEREED PUBLICATIONS

[note – previous publication name = Ashraf, A. H.]

- Hossain, A., & Malik, A. (2026). Community-Based Education: Challenges, Opportunities, and Bridging Indigenous Communities to Develop Community-Desired Skills [Chapter 12, in press]. In Y.Kong, J. Atoyebi & Jennie Wastesicot (Eds.), *Empowering Indigenous Students in the Classroom and Beyond - A Collection of Essays by Instructors at the University College of the North*.
- New Research in collaboration with Prof. Dr. Marion Terry of Brandon University (Winter and spring during 2026): Factors That Affect Grades 10 and 11 Students in Hutterite Schools That Use "Colony Blended" Academic Programming.
- Ahmed, M. *et al.* (2025). Climate-Resilient Strategies for Sustainable Management of Water Resources and Agriculture. In: Ahmed, M. (eds) *Climate Resilient and Sustainable Agriculture: Volume 2. Advances in Global Change Research*, vol 82. Springer, Cham. https://doi.org/10.1007/978-3-032-04141-8_1.
- Ahmad, S., Ahmed, M., Qadir, G., Raza, M.Y., Malik, N.A., Malik, A. (2025). Sustainable Agriculture and Its Role in Enhancing Climate Resilience. In: Ahmed, M. (eds) *Climate Resilient and Sustainable Agriculture: Volume 1. Advances in Global Change Research*, vol 79. Springer, Cham. https://doi.org/10.1007/978-3-032-00190-0_12.
- Mukhtar Ahmed, Adnan Arshad, Muhammad Yousaf Raza, and Amjad Malik (2025). Quantifying the Impact of Climate Change on Soil Microbial Processes: A Focus on Nitrification, Denitrification, and Related Biogeochemical Interactions. [Chapter 5] In: Ahmed, M. (eds) *Climate Resilient and Sustainable Agriculture: Volume 1. Advances in Global Change Research*, vol 79. Springer, Cham. https://doi.org/10.1007/978-3-032-00190-0_12

- Hossain, A., Kong, Y., & Malik, A. (2023). Remote learning during COVID-19 and transformative learning theory: tendency towards Quadruple Helix model for future post-secondary education in Indigenous contexts, *Journal of Innovation and Entrepreneurship* (2023) 12:76. <https://doi.org/10.1186/s13731-023-00341-9>
- Terry, M., & Malik, A. (2021). Factors that affect grade nine students in northern Manitoba, Canada. *BU Journal of Graduate Studies in Education*, 13(3), 55-65. (EJ1306814)
- Ahmed, M., Hasanuzzaman, M., Raza, M. A., **Malik, A.**, & Ahmed, S. (2020). Plant nutrients for crop growth, development and stress tolerance [Chapter 3]. In R. Roychowdhury, S. Choudhury, M. Hasanuzzaman, & S. Srivastava (Eds.), *Sustainable agriculture in the era of climate change*. New York, NY: Springer.
- Terry, M., **Malik, A.**, & Chohan, B. I. (2020). *Factors that affect grade nine students in Rawalpindi, Pakistan*. University College of the North, Thompson, MB; Brandon University, Brandon, MB; Government Degree College for Women, Rawalpindi, Pakistan.
- **Malik, A.**, & Chohan, B. I. (2020). Factors that affect grade nine students in Rawalpindi, Pakistan. *BU Journal of Graduate Studies in Education*, 12(1).
- **Malik, A.**, & Terry, M. (2019). *Factors that affect academic performance in grade nine*. University College of the North, Thompson, MB; Brandon University, Brandon, MB.
- Terry, M., & **Malik, A.** (2018). *Video gaming as a factor that affects academic performance in grade nine*. (ERIC Resources Information Center No. ED583492)
- **Malik, A.**, & Terry, M. (2015). Recruitment of teachers in Punjab: A qualitative study of exploring policies and procedures. *43rd CSSE Annual Conference 2015*. Retrieved from <http://ocs.sfu.ca/csse/index.php/csse/csse2015/paper/view/1682>
- Terry, M., **Malik, A.**, Sinclair, D., Fines, C., & Terry, S. (2014). Factors that affect academic performance in grade nine: Focus on video games. *International Journal of Humanities and Social Science (IJHSS)*, 4(10), 1-15. Retrieved from <http://www.ijhssnet.com/journal/index/2696>
- **Malik, A.**, Hassan, A., Kayani, N., Hussain, S., Ahmed, Z., & Malik, S. (2013). Recruitment of teachers in Punjab, Pakistan: A qualitative study to explore policies and procedures. *BU Journal of Graduate Studies in Education*, 5(2), 4-8.
- Terry, M., **Malik, A.**, Sinclair, D., Fines, C., & Terry, S. (2013, November). *Factors that affect academic performance in grade nine*. Report to Brandon School Division, Brandon, MB.
- Terry, M., **Malik, A.**, Sinclair, D., Fines, C., & Terry, S. (2013). The effect of playing video games on academic performance and peer relations in grade nine. *41st CSSE Annual Conference 2013*. Retrieved from <http://ocs.sfu.ca/fedcan/index.php/csse2013/csse2013/paper/viewFile/6085/715>

- Akram, A., Khan, A. I., Awan, S. F., Rehman, A., Ahmad, F., **Malik, A.**, & Rao, S. (2012). Genetic diversity in Indian sub-continental landrace cultivars of the genus *Triticum* L. *African Journal of Biotechnology*.
- Binda-Moir, N., & **Malik, A.** (2011). Empowerment and motivation of young Aboriginal mathematics and science students in Canada. *BU Journal of Graduate Studies in Education*, 3(2), 13-17.
- **Malik, A.**, Hassan, F., Waheed, A., Qadir, G., & Asghar, R. (2006). Interactive effects of irrigation and phosphorous on greengram (*Vigna radiata* L). *Pakistan Journal of Botany*, 38(4).
- **Malik, A.**, Bisht, V. S., Rourke, D. R. S., & Doell, R. (1998). Efficacy of split application of Ronilan for sclerotinia (*Sclerotinia sclerotiorum*) control in canola. In Agriculture and Agri-Food Canada (Ed.), *Pest management research report, 1998 growing season* (pp. 340-341). Guelph, ON: Editor.
- Bisht, V.S., **Malik, A.**, Rourke, D. R. S., & Doell, R. (1998). Comparison of Prochloraz 450 EW and Prochloraz 450 EC for control of sclerotinia stem rot (*Sclerotinia sclerotiorum* (Lib) De Bary) in canola. In Agriculture and Agri-Food Canada (Ed.), *Pest management research report, 1998 growing season* (pp. 334-335). Guelph, ON: Editor.
- Sarfraz, A., **Ashraf, A. H.**, Naz, S. Y., & Ali, M. (1993). Ammonium chloride as a nitrogen fertilizer for crops. *Journal of Animal and Plant Science* (JAPS), 3(1-2), 30-31.
- **Ashraf, A. H.**, Jafar, M., Akhtar M., Sahi, F., & Sajid, A. A. (1992). Interactive relationship of two wheat genotypes and NPK application under late sown conditions. *Journal of Animal and Plant Science* (JAPS), 2(3-4), 133-135.
- **Ashraf, A. H.**, Ahmad S., & Jafar M. (1992). Effect of NPK applications on protein and phosphorus contents of wheat grain. *Journal of Animal and Plant Science* (JAPS), 2(1-2), 57-58.

C-2.

INVITED PUBLICATIONS

- Terry, M., & **Malik, A.** (2014-2015). Factors that affect grade nine students. *The MERN Journal*, 10, 11-16. <http://www.mern.ca/journal/Journal-V10.pdf>
- **Malik, A.**, Hassan, A., Kayani, N. I., Hussain, S., Ahmad, Z., & Malik, S. (2014-15). Recruitment of teachers in Punjab: A qualitative study of exploring policies and procedures. *The MERN Journal*, 10, 64-68.

C-3. REFEREED CONFERENCE PROCEEDINGS

National conference (Canada)

- **Malik, A.,** & Terry, M. (2015). Recruitment of teachers in Punjab: A qualitative study of exploring policies and procedures. *43rd CSSE Annual Conference 2015*. Retrieved from <http://ocs.sfu.ca/csse/index.php/csse/csse2015/paper/view/1682>.
- Terry, M., Malik, A., Sinclair, D., Fines, C., & Terry, S. (2013). The effect of playing video games on academic performance and peer relations in grade nine. *Proceedings of the 41st Annual CSSE Conference 2013*. Retrieved from <http://ocs.sfu.ca/fedcan/index.php/csse2013/csse2013/paper/viewFile/6085/715>

C-4. UNPUBLISHED RESEARCH

- Terry, M., **Malik, A.,** Sinclair, D., Fines, C., & Terry, S. (2013, November). *Factors that affect academic performance in grade nine*. Report to Brandon School Division, Brandon, MB.
- Kirk, J., & **Malik, A.** (2011). *Retention of school administrators and principals in the northern school divisions*. Sponsored and funded by the Brandon University Centre for Aboriginal and Rural Studies (BU CARE) at Brandon University, Brandon, and the Manitoba Council for Leadership in Education (MCLE).
- **Ashraf, A. H.** (1997). *Interactive effects of irrigation and phosphorous on green gram (Vigna radiata L)*. Unpublished doctoral dissertation, University of Agriculture, Faisalabad, Pakistan.
- **Ashraf, A. H.** (1986). *Interactive relationship of two wheat genotypes and NPK application under late sown conditions*. Unpublished M.Sc. (Hons) thesis, University of Agriculture, Faisalabad, Pakistan.

C-5. RESEARCH PROJECTS AND REPORTS

- Terry, M., Hodges, A., & Malik, A. (in progress). *Influences on grades 10 and 11 students in Hutterite schools that use “colony blended” academic programming*. Report to Prairie Spirit School Division, Manitoba.
- Terry, M., & Malik, A., & Anju, S. (2021). *Factors that affect grade nine students in Al Moattasem International School, Saudi Arabia*. Report to Al Moattasem International Schools in Saudi Arabia.

- Terry, M., Malik, A., & Hussain, K. (2021). *Factors that affect grade nine students in a Pakistan International School in Saudi Arabia*. Report to Pakistan International Schools in Saudi Arabia.
- Terry, M., & Malik, A. (2020). *Factors that affect grade nine students in northern Canada*. Report to Frontier School Division, Manitoba. [249 s-spaced pages]
- Terry, M., Malik, A., & Chohan, B. (2020). *Factors that affect grade nine students in Rawalpindi, Pakistan*. Report to Pakistan International Schools in Rawalpindi, Pakistan.
- Terry, M., & Malik, A. (2018). *Video gaming as a factor that affects academic performance in grade nine*. (ERIC Resources Information Center No. ED583492)
- BU CARES. (2011-2016). *Vital outcomes indicators for community engagement (VOICE) for children and youth (2011-16)*. CURA project funded by SSHRC, \$1,000,000.
(I was a member of the research team. I contributed to Theme #1 – “understanding the current context of community engagement including children and youth,” and I was the investigator for Activity #1 – “capacity building - community and individual.”)
- Swayze N. (2012-2015). *Creating contexts for including Indigenous knowledge and pedagogies in science learning - The role of teacher identity and self-efficacy*. A project of the University of Winnipeg for exploring teacher self-efficacy and identity development while including Indigenous knowledge and pedagogies in science learning programs. My role in this research was to serve as a consultant based on my professional experience with First Nations students in PENT and UCN.
- Terry, M., Malik, A., Sinclair, D., Fines, C., & Terry, S. (2013, November). *Factors that affect academic performance in grade nine*. Report to Brandon School Division, Brandon, MB.
- **Malik, A.**, Terry, M., & Sinclair, D. (2010-11). *Factors that affect academic performance at the grade 9 level*. (2011). A project in three high schools of Brandon School Division. This project was funded by Brandon University Centre for Aboriginal and Rural Studies (BU CARE), \$1000. (We paid Brandon School Division for a substitute teacher and secretarial costs associated with our data collection.)
- Kirk, J., & **Malik, A.** (2010). *Retention of School Administrators and Principals in the Northern School Divisions*. Project sponsored by Brandon University Centre for Aboriginal and Rural Studies (BU CARES) and MCLE (\$5000).
- Sutherland, D., & **Malik, A.** (2007-2008). *Exploring culturally relevant science instruction – a research project involving both on and off-campus education students*. Research funded by the Canada Research Chair in Indigenous Science Education at the University of Winnipeg (\$4000).
- **Malik, A.**, Storie, J., & Dumas, D. (2007-2010). *Fisher River First Nation transition study*. Project funded by Brandon University Community Outreach Services (\$3500).

- *Mobile Science Resource Lab Project*. (2007). (NSERC Bus Project) sponsored by NSERC, Brandon University, Department of Education, Manitoba and Manitoba Education Research Network (MERN). This project was discontinued due to technical reasons.

C-6. RESEARCH IN PROGRESS

- Terry, M., Hodges, A., & Malik, A. (in progress). *Influences on grades 10 and 11 students in Hutterite schools that use “colony blended” academic programming*.
Our purpose is to study various influences on students in grades 10 and 11. These influences include school experiences, social relationships, and leisure-time activities. For example, the survey has questions about classroom experiences, friendships, sports, texting, and computer games. The research promises to tell us more about helping students to succeed and have other positive experiences in high school.

C-7. FUTURE RESEARCH INTERESTS (INITIATIVES)

- Kenanow (CBE) graduated teachers’ satisfaction in northern MB
- Aboriginal science
- Environmental science
- Teachers’ education and science content knowledge
- Environmental Mathematics
- Mathematics for Aboriginal and minority students (future challenges)
- Cross-cultural comparative studies (national and international)
- Kitchen gardening in Aboriginal communities (health initiatives)
- Quantitative and mixed methods of research in education
- Effects of video gaming and texting on student performance (technology challenges)

C-8. CONFERENCES AND OTHER PRESENTATIONS

- **Malik, A.**, Spence, G., Dixon, T., & Peko, F. (2019, February). Inspire and Connect: *Land! Our First Teacher! Inciting Students' Curiosity in Math & Science through Relevancy*. Presentation at the WestCAST – 2019 Conference, University of Calgary, Calgary, AB.
- Malik, A., Fecteau-Forbister, H., Houndle, K., Miscavish, T., Wavey, Y., & Wolfe, A. (2017, March). *The land is our first teacher: Engaging of learners in a northern environment*. Paper presented at the meeting of the Manitoba Educational Research Network (MERN) Forum on “MERN North 2017” University College of the North, Thompson, MB.
- **Malik, A.**, & Terry, M. (2015, June). *Recruitment of teachers in Punjab, Pakistan: A qualitative study to explore policies and procedures*. Paper presented at the 43rd CSSE Annual Conference, Ottawa, ON.

- **Malik, A.,** Rajendran, M., Harrington, D., & Cook, K. (2015, March). *Teaching science in the north*. Paper presented at the meeting of the Manitoba Educational Research Network (MERN) Forum on “*MERN North 2015*” University College of the North, Thompson, MB.
- **Malik, A.** (2015, March). *Recruitment of teachers in Punjab, Pakistan: A qualitative study to explore policies and procedures*. Paper presented at the meeting of the Manitoba Educational Research Network (MERN) Forum on “*MERN North 2015*” University College of the North, Thompson, MB.
- Breemersch, L., Bignell, M., Smeltzer, D. & **Malik, A.,** (2015, March). *Incorporating traditional elders in teaching science and mathematics in northern schools*. Paper presented at the meeting of the Manitoba Educational Research Network (MERN) Forum on “*MERN North 2015*” University College of the North, Thompson, MB.
- **Malik, A.,** & Anderson, A. (2015, February). *Student achievement in mathematics in the Early/Middle Years stream*. Presentation at the committee that advises the Minister of Education on matters of Teacher Certification and Teacher Education. Teacher Education and Certification Committee (TECC). Professional Certification and Student Records Unit, Manitoba Education and Advanced Learning. Manitoba Teachers Society, Winnipeg, MB.
- **Malik, A.** (2014, November). *Recruitment of teachers in Punjab, Pakistan: A qualitative study to explore policies and procedures*. Paper presented at the meeting of the Manitoba Educational Research Network (MERN) Forum on “Education for All,” Brandon, MB.
- Terry, M. & **Malik, A.** (2014, November). *Factors that affect academic performance in grade 9: Focus on video games*. Paper presented at the meeting of the Manitoba Educational Research Network (MERN) Fall Forum, Brandon, MB.
- **Malik, A.,** (2013, June). Context in Teacher Education: Cultural Awareness as an Instructional Tool in the Science Classroom. Mini conference presentation, Ph.D scholar forum, Faculty of Education University of Manitoba.
- Terry, M., & **Malik, A.** (2013, June). The effect of playing video games on academic performance and peer relations in grade nine. Paper presented at the *41st CSSE Annual Conference*, Victoria. BC.
- Terry, M., & **Malik, A.** (2013, May). *The correlations between playing video games and academic performance and peer relations in grade nine*. Paper presented at the *41st CSSE Annual Conference*, Victoria, BC. Retrieved from <http://ocs.sfu.ca/fedcan/index.php/csse2013/csse2013/paper/view/6085>
- **Malik, A.,** & Friesen, K. (2013, February). *Speaking to the heart”: Engaging culturally diverse learners through their life experiences*. Presentation at the WestCAST – 2013 Conference, Prince George, BC.

- **Malik, A.,** White, R. & Birch, V. (2012, March). *Making math and science topics enticing for Aboriginal students – First-hand experience*. Paper presented at the meeting of the Manitoba Educational Research Network (MERN) Forum on “Emergent Trends in Science and Mathematics Education,” Winnipeg, MB.
- **Malik, A.** (2011, October). *Quantitative inquiry*. Presentation at the Graduate Student Research Colloquium on “Mixed Methodologies in Action Research,” Brandon, MB.
- Terry, M., & **Malik, A.** (2011, October). *Factors that affect academic performance in grade nine*. Invited presentation at the Learning Information for Teaching (LIFT) Conference, Brandon, MB.
- **Malik, A.** (2010, Winter). *Retention of school administrators and principals in the northern school divisions*. Paper presented at the meeting of the Manitoba Educational Research Network (MERN) Forum on “Rural Education,” Thompson, MB.
- **Malik, A.,** Margetts, S., & Cockerline, G. (2009, September). *Science and mathematics concept mapping, with assessment in mind*. Presentation at the Sioux Valley Professional Development Institute, Brandon, MB.
- **Malik, A.,** Brown, C., & Peden, S. (2009). *Culturally relevant Pedagogy*. Presentation at the Workshop to teacher candidates at Brandon University, Brandon, MB.
- **Malik, A.,** Storie, J., Murdock, N., & Dumas, D. (2008, November). *Fisher River Cree Nation “Enhancement year program” study: Year 1 – Exploring answers*. Paper presented at the meeting of the Manitoba Educational Research Network (MERN) Forum on the “Success for Aboriginal Students: What Works,” Brandon, MB.
- **Malik, A.,** & Lall, M. (2007, February). *Context in teacher training: Cultural awareness and the need for effective instructional practice in classrooms*. Presentation at the meeting of the Western Canadian Association for Student Teaching (WESTCAST) conference on “Learning to Teach, Teaching Learning,” Winnipeg, MB.
- **Malik, A.,** & Binda, K. P. (2006, November). *An examination of educational problems as perceived by rural educators*. Paper presented at the meeting of the Manitoba Educational Research Network (MERN) conference on “Rural Education,” Brandon, MB.

C-9.	ACADEMIC REVIEWER FOR SCHOLARLY JOURNALS
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- *BU Journal of Graduate Studies in Education*, 2008to present
The journal publishes scholarly articles, special interest papers, research reports, and opinion papers written by current and past graduate students in the Faculty of Education. As of 2016, it also publishes B.Ed. student papers by recommendation of the professor, and as of 2017 it publishes externally reviewed research reports by Faculty of Education professors at BU and UCN. The refereed articles are double-blind reviewed. As of 2019, the journal articles are indexed on ERIC (Educational Resources Information Center), backdated to 2013.

- Research paper proposals for Science Education Research Group (SERG) for CSSE conference, 2007 to present
- Research paper proposals for CSSE-CACS, 2008, 2013 to present
- Journal articles for the *Canadian Journal of Plant Science* (CJPS), 2006 to present
- Journal articles for the *In-education Journal*, 2012 to present
- Journal articles for *The Journal of Manitoba First Nation Educational Research Centre*, 2009 to present
- Research paper proposals for Comparative and International Education Society of Canada (CIESC) for CSSE conference, 2016
- Research paper proposals for the World Conference on Psychology and Sociology, Istanbul, Turkey. 2012-13
- Planning Committee for presentations at the annual conference of the Canadian Society for the Study of Education (CSSE) Conference, Vancouver (2008) and Victoria 2013)

C-10.	EXTERNAL REFEREE for Ph.D. DISSERTATIONS <i>(International Universities)</i>
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| 2019 | Ph.D. dissertation for the Department of Education, Faculty of Liberal Arts and Science, Foundation University, Rawalpindi, Pakistan. Thesis title: <i>Effectiveness of Information Communication Technology in Teaching English Through Communicative Approach at Secondary Level.</i> |
| 2019 | Ph.D. dissertation for the Department of Crop Physiology, Faculty of Crop Production, Sindh Agriculture University, Tandojam, Sind, Pakistan. Thesis title: <i>Study On Losses In Wheat Grain Yield and Quality in Relation To Different Methods of Methods of Harvesting and Timing of Threshing.</i> |
| 2018 | Ph.D. dissertation for the Department of Education, Hazara University Mansehra, Pakistan. Thesis title: <i>Effect of Training Micro-Teaching on the Performance of Prospective Teachers and their Effective in Teaching.</i> |
| 2017 | Ph.D. dissertation for the Department of Microbiology, Karakoram International University, Gilgit, Pakistan. Thesis title: <i>Variation in Soil Physical Chemical and Microbiology Parameters in Various Land Use and Altitude in Bagrote Valley, CKNP.</i> |
| 2017 | Ph.D. dissertation for the Department of Education, Hazara University Mansehra, Pakistan. Thesis title: <i>Study of Assessment Process in Classroom at University Level and Developing a Model Subject to Quality Assurance Indicators.</i> |
| 2017 | Ph.D. dissertation for the Department of Education, Hazara University Mansehra, Pakistan. Thesis title: <i>Effect of Curricular Activities on Development of Emotional Intelligence among University Students.</i> |
| 2016 | Ph.D. dissertation for the Department of Agronomy, Faculty of Agriculture, Pir Mehr Ali Shah, University of Arid Agriculture, Rawalpindi, Pakistan. Thesis title: <i>Impact of Cropping and Tillage Systems on Weeds and Wheat Yield.</i> |

- 2015 Ph.D. dissertation for the Department of Education, Faculty of Liberal Arts and Science, Foundation University, Rawalpindi, Pakistan. Thesis title: *Poverty Alleviation and Education – An Analysis of official policy of Government of Pakistan.*
- 2014 Ph.D. dissertation for the Department of Education, Faculty of Liberal Arts and Science, Foundation University, Rawalpindi, Pakistan. Thesis title: *An Analysis of Relevance of B.Ed Curriculum on the Basis of Feedback from the Stakeholders.*
- 2014 Ph.D. dissertation for the Department of Agronomy, Faculty of Agriculture, Pir Mehr Ali Shah, University of Arid Agriculture, Rawalpindi, Pakistan. Thesis title: *Weed Population Dynamics and Wheat Productivity Under Different Tillage Systems in Pothwar.*
- 2014 Ph.D. dissertation for the Department of Agronomy, Faculty of Agriculture, Pir Mehr Ali Shah, University of Arid Agriculture, Rawalpindi, Pakistan. Thesis title: *Effect of Soil Additives on Soil Moisture Conservation and Legume- Cereal Performance under Rainfed Conditions.*
- 2012 Ph.D. dissertation for the Department of Education, Faculty of Liberal Arts and Science, Foundation University, Rawalpindi, Pakistan. Thesis title: *Relationship between Intrinsic Motivation, Goal Orientation, Study Strategies and Academic Achievement.*
- 2012 Ph.D. dissertation for the Department of Agronomy, Faculty of Agriculture, Pir Mehr Ali Shah, University of Arid Agriculture, Rawalpindi, Pakistan. Thesis title: *Effect of Agronomic Practices on the Yield and Quality of Rainfed Sorghum Forage.*
- 2011 Ph.D. dissertation for the Department of Education, Faculty of Liberal Arts and Science, Foundation University, Rawalpindi, Pakistan. Thesis title: *An Analysis of Relevance of B.Ed Curriculum on the Basis of Feedback from the Stakeholders.*
- 2011 Ph.D. dissertation for the Department of Education, Faculty of Liberal Arts and Science, Foundation University, Rawalpindi, Pakistan. Thesis title: *Conceptualizing Abstract Chemical Concept with Level of Thought at Secondary School Level in Pakistan.*
- 2010 Ph.D. dissertation for the Department of Education, Faculty of Liberal Arts and Science, Foundation University, Rawalpindi, Pakistan. Thesis title: *A Comparative Study of the Nature of Difficulties and Factors Affecting the Learning of English by the Secondary School Students of Provincial and Federal Government Schools in N.W.F.P.*
- 2007 Ph.D. dissertation for the Department of Education, Faculty of Advance Integrated Studies (AIS), National University of Modern Languages, Islamabad, Pakistan. Thesis title: *An Appraisal of Continuous Assessment and Evaluation System in Public Sector Schools of Punjab.*
- 2006 Ph.D. dissertation for the Department of Agronomy, Faculty of Agriculture, University of Arid Agriculture, Rawalpindi, Pakistan. Thesis title: *Morpho-genetic Expression of Sunflower under Varied Temperature and Moisture Regimes in the Rainfed Area.*

C-11. SUPERVISION OF M.Ed (Research) THESIS/ PRACTICUM

- 2025-27 Advisor/Committee Member of research team (Approved by UCN-REB) for an M.Ed. thesis student in the Department of Graduate Studies, Faculty of Education, Brandon University. Project Title: ***Influences on grades 10 and 11 students in Hutterite schools that use “colony blended” academic programming.***
Our purpose is to study various influences on students in grades 10 and 11. These influences include school experiences, social relationships, and leisure-time activities. For example, the survey has questions about classroom experiences, friendships, sports, texting, and computer games. The research promises to tell us more about helping students to succeed and have other positive experiences in high school.
- 2011-15 Student Adviser/Committee Member for an M.Ed. thesis student in the Department of Graduate Studies, Faculty of Education, Brandon University. Thesis title: ***Perceptions of Readiness-Experiences of First Year Bachelor of Education Students.***
A thesis project started in Sept 2011 and defended in 2015. This study investigated how the experiences of first year B.Ed. (AD) students (in the middle years and senior years stream) who have participated in a professional development school (PDS) program compare to first year B.Ed. (AD) students who have participated in the traditional education program, in terms of their perceptions of readiness for the teaching profession.
- 2008-09 Student Adviser for an M.Ed. practicum student in the Department of Graduate Studies, Faculty of Education, Brandon University. Practicum title: ***Enhancement Year Program Study; Fisher River First Nation.***
The purpose of the study was to examine the impact of the Enhancement Year Program on students’ self-esteem, academics, and attitudes towards studying. In addition, the success of students in their postsecondary education was the main focus of study.

C-12. PROFESSIONAL DEVELOPMENT (Conferences/Workshops/Seminars)

- 2018 Numeracy Leaders Sub-Committee (Planning) member
- 2016 Mathematics Teachers Inquiry Project (MTIP)
- 2015 Mathematics Teachers Inquiry Project (MTIP) - North
- 2015 Cultural Awareness Workshop at Mile 20 organized by Kenanow Bachelor of Education program at Thompson, MB
- 2015 Treaty Commission Workshop in Mystery Lake School Div. Thompson, MB
- 2014 Supervisor Training Workshop at UCN campus, the Pas MB.
- 2014 Cultural Awareness Workshop at Mile 20 organized by Kenanow Bachelor of Education program at Thompson, MB
- 2012 MERN Conference “Emergent Trends in Science and Mathematics Education” at University de Saint-Boniface
 - Can Students Learn Science Through a Story? Klassen, C. & Klassen, S.
 - Learning Biology for Socio-political Action, McMillan, B.
- 2011 Understanding data quickly and easily – A workshop on SPSS at IBM Centre, ON.
- 2011 WestCAST Conference at Brandon University:

- P.O.E.s and Other Ways to Engage Students in Science
- Professional partnerships: New Perspectives for Interns and Mentor Teachers
- Teacher Candidate Experiences of Infusing First Nations and Metis Content and Ways of Knowing During Internship
- A Rich Learning Landscape: More than Adding Technology
- Disrupting Assumptions of Aboriginal Peoples Through Aboriginal Literature
- 2010 Institutional Advancement & Faculty- Identifying Opportunities
- 2009 Tips & Tools for Taking Meeting Minutes
- 2008 Providing Service Excellence
- 2007 Understanding the Nature of Science - A symposium for Graduate Students and Teachers of Science
- 2006 Orientation to New Curriculum (3-day workshop)
- 2006 Young Mathematician at Work
- 2006 Risk Management
- 2005 Gift of Reading
- 2005 Building Bridges
- 2005 The Canadian Society for the Study of Education (CSSE)
- 2005 Aboriginal Education: What is it?
- 2005 Integrated Aboriginal Perspectives: Understanding The Circle and Medicine Wheel
- 2005 Soccer coach certification
- 2005 Walking in both Worlds
- 2005 Technology in Mathematics and Science teaching
- 2005 Making Classroom Assessment Work for Learning
- 2004 United Against Racism: Contesting Inequalities Across All Sites of Learning
- 2003 Portfolio Development
- 2003 Classroom-Based Assessment
- 2003 Art Therapy
- 2003 Curriculum Navigator
- 2003 Sexual Health – Health Education
- 2003 The Beginning Teacher (K-12)
- 2003 Working with children with AD/HD
- 1999 Anger and Stress Management Courses
- 1999 Agri Res Management and PRM workshops on Agricultural Statistical software
- 1997 Agronomy of Minor and Special crops workshop by Agricultural Research Council)
- 1995 Conference on Crop Production in Dry Regions of South Asian by Asian Dev. Bank

D. SERVICE TO THE UNIVERSITY & THE COMMUNITY

D-1. UNIVERSITY SERVICE

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| • 2020-2023 | Member, Learning Council (Senate), University College of the North |
| • 2017-2019 | Member, Tenure and Promotion Committee, University College of the North (UCN) |
| • 2014-2016 | Member, Research and Scholarship Committee, University College of the North (UCN) |

- 2013-2015 Member, Tenure and Promotion Committee, UCN
- 2012-2016 Member, Curriculum Committee in the Kenanow Bachelor of Education Program, Faculty of Education, University College of the North (UCN)
- 2012-2015 Co-Chair, Research and Ethics Committee in the Kenanow Bachelor of Education Program, Faculty of Education, UCN
- 2012-2015 Member, Faculty of Arts and Science, UCN
- 2011-2012 Member, International Activities Committee of Senate, BU
- 2010-2012 Member, Graduate Studies and Field Research Committee, BU
- 2011-2012 Representative of Faculty of Education in the Faculty of Science Council, Brandon University
- 2008-2011 Recruitment of students for Under-graduate and graduate programs, BU
- 2010-2011 Campus Beautification Committee, Faculty of Education, BU
- 2010-2011 Member, WestCAST organizing committee, BU
- 2009-2010 Representative of Faculty of Education in the Faculty of Science Council, Brandon University
- 2007-2009 Member, Admissions Committee, Faculty of Education, Brandon University
- 2007-2008 Representative of Faculty of Education in the Faculty of Science Council, Brandon University
- 2005 Campus Representative at Faculty of Education, Brandon University for Canadian Committee of Students in Education (CCSE)
- 2002-2004 Vice President, Public Relations for Brandon University Liberals Club, Brandon University
- 2002-2003 Senator-at-large, Brandon University
- 2001-2003 Peer Support Program, Brandon University

D-2.

COMMUNITY SERVICE

- 2012-to date External Referee and examiner for Ph.D. Research and Dissertations for International Universities.
- 2008-to date Student Adviser/Committee Member for an M.Ed. thesis student in the Department of Graduate Studies, Faculty of Education, BU.
- 2016-18 Chairperson of Syrian Refugees Rehabilitation Committee formed by all religious bodies (various religious places) in Brandon and Westman area
- 2012-14 Science and mathematics promotion club in the schools of Northern MB.
- 2008 -to date Judge, Western Manitoba Science Fair in Brandon
- 2011-to date Participated in the sandbagging and other rescue operations for flood-affected people in Brandon
- 2002-2011 Tutoring and coaching mathematics and science at Brandon Adult Collegiate
- 2007-present Certified Soccer Coach and Referee
- 2005-2006 Soccer Coach (Parkland Senior Boys Soccer Team) at Ste. Rose du Lac
- 2005-2006 Coordinator, Environmental Club at Ste. Rose School
- 2005-2006 Coordinator, Science Fair at Ste. Rose School

- 2005-2006 Badminton Coach for the Senior Boys Team at Ste. Rose School
- 2005-2006 Soccer Coach for the Senior Boys Team at Ste. Rose School
- 2004 Coordinator, Mathematics Club for “at-risk” students at DRCSS, Dauphin
- 2004 Cricket Coach for the Senior Boys at DRCSS, Dauphin
- 2003-present Development Officer of Cricket for Western Manitoba
- 2003-2006 Member, Marquis Project, Brandon
- 2003-2004 President, Brandon Cricket Association, Brandon
- 2002-2004 President, Brandon Islamic Association, Brandon
- 2002-2004 Vice President, Public Relations for Brandon University Liberals Club
- 2002-present Level I Certified Cricket Coach, Canadian Cricket Association
- 2002-present Level I & II Certified Cricket Referee, Manitoba Cricket Association
- 2001-2016 Volunteer visitor at the Brandon Correctional Centre
- 1999-present Fundraising Member for the Canadian Cancer Society, Brandon
- 1999-2005 Member, Parent Council at Riverview School, Brandon
- 1989-1992 Director of Community Services, Rotary International Club, Mid Town, Islamabad, Pakistan

E.

PROFESSIONAL MEMBERSHIPS

- 2015-present Canadian Association for the Study of Indigenous Education (CASIE)
- 2015-present Science Area Research Group (SERG)
- 2015-present Comparative and International Education Society of Canada (CIESC)
- 2015-present MERN Teacher Education Research Group
- 2015-present Mathematics Teacher Inquiry Group (MTIP)
- 2015-present Science Teacher Inquiry Group (STIP)
- 2013-present Manitoba Association of Plant Biologists
- 2005-present Special Area Group (SAG)
- 2004-2018 Manitoba Educational Research Network (MERN)
- 2004-2012 Association of Supervision and Curriculum Development (ASCD)
- 2004-present The Canadian Association for Teachers Education (CATE)
- 2004-present The Canadian Society for the Study of Education (CSSE)
- 2004-present Canadian Association for Curriculum Studies (CACS)
- 2004-2012 Brandon University Faculty Association (BUFA)
- 2004-present Manitoba Teachers’ Society (MTS)
- 2001-2002 Brandon University Student Union (BUSU)
- 1998-1999 Weed Science Society of Canada (WSSC)
- 1990-1997 Pakistan Agricultural Scientist Forum (PAS-Forum)