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Website: [www.fnuniv.ca/academic/faculty/dr-edward-doolittle](http://www.fnuniv.ca/academic/faculty/dr-edward-doolittle)

Latest CV: [github.com/edoolittle/cv/raw/pdf/cv.pdf](https://github.com/edoolittle/cv/raw/pdf/cv.pdf)

Associate Professor of Mathematics

Department of Indigenous Knowledge and Science

First Nations University of Canada

1 First Nations Way, Regina, Saskatchewan, S4S 7K2, Canada

## Current Professional Appointments

- 2024-on    **Associate Dean, Research and Graduate Programs**, First Nations University of Canada [www.fnuniv.ca](http://www.fnuniv.ca)
- 2024-on    **Co-chair (Indigenous Research)**, Research Ethics Board, University of Regina [www.uregina.ca](http://www.uregina.ca)
- 2014-on    **Associate Professor of Mathematics**, First Nations University of Canada [www.fnuniv.ca](http://www.fnuniv.ca)

## Previous Professional Appointments

- 2011–2014    **Associate Professor of Mathematics and Department Head**, First Nations University of Canada
- 2009–2011    **Associate Professor of Mathematics**, First Nations University of Canada [www.fnuniv.ca](http://www.fnuniv.ca)
- 2008–2009    **Assistant Professor of Mathematics**, First Nations University of Canada [www.fnuniv.ca](http://www.fnuniv.ca)
- 2005–2008    **Assistant Professor of Mathematics**, University of Regina [www.uregina.ca](http://www.uregina.ca)
- 2002–2005    **Assistant Professor of Mathematics and Department Head**, First Nations University of Canada
- 2001–2002    **Assistant Professor of Mathematics**, Saskatchewan Indian Federated College

## Leadership and Involvement

- 2025-on    **Board Member**, Board of Directors, Pacific Institute for the Mathematical Sciences (PIMS) [www.pims.math.ca/people/board](http://www.pims.math.ca/people/board)
- 2023-on    **Chair**, Mathematics and Reconciliation Committee, Canadian Mathematical Society (CMS) [cms.math.ca/about-the-cms/governance/committees/#rmc](http://cms.math.ca/about-the-cms/governance/committees/#rmc)
- 2022-on    **Executive Member**, Computer-Assisted Research Mathematics and its Applications (CARMA), Australia [carmamaths.org/people/](http://carmamaths.org/people/)
- 2022-on    **Committee Member**, Equity, Diversity and Inclusion Advisory Committee, Fields Institute for Research in Mathematical Sciences (Fields) [www.fields.utoronto.ca](http://www.fields.utoronto.ca)
- 2021-on    **Committee Member**, Indigenous Engagement Committee, Pacific Institute for the Mathematical Sciences (PIMS) [www.pims.math.ca/people/committees/indigenous-engagement-committee](http://www.pims.math.ca/people/committees/indigenous-engagement-committee)
- 2020-on    **Board Member**, Equity, Diversity and Inclusion Advisory Board, Banff International Research Station (BIRS) [www.birs.ca/about/governance/scientific-management/Equity-Diversity-Inclusion-Board/current-members-EDIB](http://www.birs.ca/about/governance/scientific-management/Equity-Diversity-Inclusion-Board/current-members-EDIB)
- 2019-on    **Judge**, National Judging Team, Youth Science Canada (YSC) [youthscience.ca](http://youthscience.ca)
- 2018-on    **Trustee**, Trust Fund Committee, University of Regina Faculty Association [urfa.ca/committees/trust-fund](http://urfa.ca/committees/trust-fund)

## Education

- 1992–1997    **PhD in Mathematics**, University of Toronto [www.utoronto.ca](http://www.utoronto.ca)  
[utoronto.scholaris.ca/server/api/core/bitstreams/a6c7bee0-0bce-49dd-e0695623a0dc/content](http://utoronto.scholaris.ca/server/api/core/bitstreams/a6c7bee0-0bce-49dd-e0695623a0dc/content)
- 1990–1992    **MSc in Mathematics**, University of Toronto, [www.utoronto.ca](http://www.utoronto.ca)
- 1985–1990    **BSc in Mathematics**, University of Toronto, [www.utoronto.ca](http://www.utoronto.ca)

## Indigenous Identity

I am a **Status Indian**, member of the **Lower Mohawk** band of **Six Nations**.

## Fellowships and Awards

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- 2024 **Fellow** of the Canadian Mathematical Society  
[cms.math.ca/news-item/canadian-mathematical-societys-2024-class-of-fellows-announced/](https://cms.math.ca/news-item/canadian-mathematical-societys-2024-class-of-fellows-announced/)
- 2023 **Adrien Pouliot Award**, Canadian Mathematical Society  
[cms.math.ca/news-item/dr-edward-doolittle-named-the-2023-adrien-pouliot-award-recipient/](https://cms.math.ca/news-item/dr-edward-doolittle-named-the-2023-adrien-pouliot-award-recipient/)
- 1992 **Governor General's Gold Medal** [www.gg.ca/en/honours/recipients/116-5733](http://www.gg.ca/en/honours/recipients/116-5733)

## Grants

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- 2026 **Mathematics Bundle.** Banff International Research Station (BIRS) workshop 26w5629.  
Glanfield, F (PI), Doolittle, E, McKenna, B [www.birs.ca/event/26w5629](https://www.birs.ca/event/26w5629)
- 2025-2026 **Natural Language Processing of the Indigenous Languages of Saskatchewan.** Saskatchewan Indigenous Cultural Centre; Indigenous Languages Program, Department of Canadian Heritage  
Doolittle, E (PI), Dosselmann, R, Wolvengrey, A (**\$110,000 over 1 year**)
- 2025-2027 **Word Puzzles in Indigenous Languages.** Humanities Research Institute Fellowship, University of Regina.  
Doolittle, E (PI). (**\$5,000 over 2 years**) [www.humanitiesresearch.org/profile-dr-edward-doolittle/](https://www.humanitiesresearch.org/profile-dr-edward-doolittle/)
- 2025 **The Math Bundle.** Banff International Research Station (BIRS) workshop 25w5472.  
Doolittle, E (PI), Glanfield, F, McKenna, B [www.birs.ca/events/2025/5-day-workshops/25w5472](https://www.birs.ca/events/2025/5-day-workshops/25w5472)
- 2024-2030 **Critical Approaches to Indigenous Relationality.** Social Sciences and Humanities Research Council (SSHRC) Partnership Grant. [www.prairierelationality.ca/cair-meet-our-team-co-applicants](https://www.prairierelationality.ca/cair-meet-our-team-co-applicants)  
Jobin, S (PI), et. al, Doolittle, E, et. al (**\$2.5 million over 6 years**)
- 2024-2029 **SK-NEIHR: Indigenous Futurisms in Indigenous Health and Wellbeing: The natawhowin and mamawiikikayaahk Research, Training and Mentorship Networks.** Network Environments for Indigenous Health Research (NEIHR) operating grant, Institute of Indigenous Peoples' Health (IIPH), Canadian Institutes of Health Research (CIHR) [research-groups.usask.ca/sk-neihr/index.php](https://research-groups.usask.ca/sk-neihr/index.php)  
Henry, R (NPI), Campbell, L (PI), Doolittle, E (PI), et. al (**\$5.575 million over 5 years**)
- 2024-2026 **The Mathematics of Indigenous Games.** First Nations University Board of Governors Research Award.  
Doolittle, E (PI), Fallat, S. (**\$5000 over 2 years**)
- 2023-2028 **Mathematics Education for STEM as Place.** Social Sciences and Humanities Research Council (SSHRC) Insight Grant. [www.sshrc-crsh.gc.ca/results-resultats/recipients-recipientaires/2021/ig-ss-eng.aspx](https://www.sshrc-crsh.gc.ca/results-resultats/recipients-recipientaires/2021/ig-ss-eng.aspx)  
Nicol, C (PI), Doolittle, E, Glanfield, F, Thom, J (**\$360,000 over 5 years**)
- 2022-2027 **Banff International Research Station.** Natural Sciences and Engineering Research Council (NSERC) Discovery Institutes Support Grants. [www.nserc-crsng.gc.ca/ase-oro/Details-Detailles\\_eng.asp?id=767960](https://www.nserc-crsng.gc.ca/ase-oro/Details-Detailles_eng.asp?id=767960)  
Pramanik, M (PI), Behjat, L, Doolittle, E, Frappier, M, Husain, V, Lewis, M, Sun, L. (**\$5 million over 5 years**)
- 2013 **Understanding Relationships between Aboriginal Knowledge Systems, Wisdom Traditions, and Mathematics: Research Possibilities.** Banff International Research Station (BIRS) workshop 13w5120.  
Doolittle, E, Glanfield, F [www.birs.ca/events/2013/5-day-workshops/13w5120](https://www.birs.ca/events/2013/5-day-workshops/13w5120)
- 2010-2012 **Creating a Research Network to Develop an Understanding of Relationships between Aboriginal Knowledge Systems, Wisdom Traditions, and Mathematics Education.** Social Sciences and Humanities Research Council (SSHRC) Aboriginal Research Development Grant.  
Glanfield, F (PI), Donald, D, Doolittle, E, Sterenberg G (**\$25,000 over 2 years**)  
<http://www.outil.ost.uqam.ca/CRSH/Detail.aspx?Cle=87003&Langue=2>
- 2008 **MATH 104/105 Development of Online Calculus.** Technology Enhanced Learning grant, Ministry of Advanced Education, Government of Saskatchewan.  
Herman, Allen (PI) & Doolittle, E. (**\$30,000**)
- 2004 **Understanding the relationships between teacher training, science and technology instruction in elementary education among the Nishnawbe-Aski communities in the Sioux Lookout district.** Social Sciences and Humanities Research Council (SSHRC) Aboriginal Research Grant.  
Engemann, J (PI), Brindle, I (co-PI), Doolittle, E (co-PI), et. al. (**\$25,000**)  
<http://www.outil.ost.uqam.ca/CRSH/Detail.aspx?Cle=33065&Langue=2>

2002	<b>Provide infrastructure for academic research facility for Aboriginal environmental, health research and teaching laboratories.</b> Canada Foundation for Innovation grant number 5750. <u>Doolittle, E (PI), Chapco, W, Fuller, N, et. al. (\$351,924)</u>
1991–1995	<b>NSERC Postgraduate Scholarship (\$56,000 over 4 years)</b> <a href="http://www.nserc-crsng.gc.ca/ase-oro/index_eng.asp?new">www.nserc-crsng.gc.ca/ase-oro/index_eng.asp?new</a>

## Supervision

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2024-on	Layne Burns, MSc in Mathematics, University of Regina ( <b>Co-supervisor</b> )
2024-on	Whitney Ogle, MA in Indigenous Education, University of Regina ( <b>Committee Member</b> )
2023–2024	Layne Burns, Natural Sciences and Engineering Research Council (NSERC) Undergraduate Student Research Award (USRA) in Mathematics, First Nations University of Canada ( <b>Supervisor</b> )
2023-on	John Porrit, PhD in Mathematics Education, University of Regina ( <b>Co-supervisor</b> )
2023-on	Ehdaa Matia, PhD in Mathematics Education, University of Regina ( <b>Committee Member</b> )
2022–2023	Shana Graham, Postdoctoral Fellowship, University of Regina ( <b>Co-supervisor</b> )
2022	Myron Medina, PhD in Curriculum Studies, University of British Columbia ( <b>External Examiner</b> ) <a href="http://open.library.ubc.ca/media/download/pdf/24/1.0421274/4">open.library.ubc.ca/media/download/pdf/24/1.0421274/4</a>
2020-on	Tannen Acoose, PhD in Mathematics, University of Regina ( <b>Committee Member</b> )
2018	Vanessa Braun, MA in Curriculum and Instruction, University of Regina ( <b>External Examiner</b> ) <a href="http://ourspace.uregina.ca/server/api/core/bitstreams/17ba3eee-6a3b-40aa-add6-4fe95b865431/content">ourspace.uregina.ca/server/api/core/bitstreams/17ba3eee-6a3b-40aa-add6-4fe95b865431/content</a>
2017–2020	Shana Graham, PhD in Education, University of Regina ( <b>Committee Member</b> ) <a href="http://ourspace.uregina.ca/server/api/core/bitstreams/8facba27-f8f1-4d29-b47b-e0d2e7634000/content">ourspace.uregina.ca/server/api/core/bitstreams/8facba27-f8f1-4d29-b47b-e0d2e7634000/content</a>
2012–2017	Tannen Acoose, MSc in Mathematics, University of Regina ( <b>Co-supervisor</b> ) <a href="http://ourspace.uregina.ca/server/api/core/bitstreams/8fe04ddf-4683-467a-837c-220914dcacc0/content">ourspace.uregina.ca/server/api/core/bitstreams/8fe04ddf-4683-467a-837c-220914dcacc0/content</a>
2003–2005	Meseret Bowden, MSc in Mathematics, University of Regina ( <b>Supervisor</b> )

## Papers in Refereed Journals

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- future Lemon, M., Thom, J. S., Doolittle, E., Glanfield, F., & Nicol, C. Time, place, and learning STEM as place. *Journal of Curriculum Studies*. Revised and submitted.
- future Dosselmann, R., Doolittle, E., & Tayal, V. Quipu data structure. Submitted to *Springer New Generation Computing*.
- future Doolittle, E., & Burns, L. Analysis of a Game Like the Peach Stone Bowl Game. In preparation.
- 2023 Nicol, C., Thom, J. S., Doolittle, E., Glanfield, F., & Ghostkeeper, E. (2023) Mathematics education for STEM as place. *ZDM – Mathematics Education*, 55(7), 1231–1242. doi:[10.1007/s11858-023-01498-z](https://doi.org/10.1007/s11858-023-01498-z)
- 2022 Adusei, K. K., Ng, K. T. W., Karimi, N., Mahmud, T. S., & Doolittle, E. (2022). Modeling of municipal waste disposal behaviors related to meteorological seasons using recurrent neural network LSTM models. *Ecological Informatics*, 72, 101925. doi:[10.1016/j.ecoinf.2022.101925](https://doi.org/10.1016/j.ecoinf.2022.101925)
- 2020 Leung, F.-S., Radzimski, V., & Doolittle, E. (2020). Reimagining Authentic Mathematical Tasks for Non-STEM Majors. *Canadian Journal of Science, Mathematics and Technology Education*, 20(2), 205–217. doi:[10.1007/s42330-020-00084-9](https://doi.org/10.1007/s42330-020-00084-9)
- 2017 Miller, A. M., & Doolittle, E. (2017). RaráMuri Bird Knowledge and Environmental Change in the Sierra Tarahumara, Chihuahua, Mexico. *Journal of Ethnobiology*, 37(4), 663–681. doi:[10.2993/0278-0771-37.4.663](https://doi.org/10.2993/0278-0771-37.4.663)
- 2010 Kajander, A., Mason, R., Taylor, P., Doolittle, E., Boland, T., Jarvis, D., & Maciejewski, W. (2010). Multiple Visions of Teachers' understandings of Mathematics. *For the Learning of Mathematics*, 30(3), 50–56. [www.jstor.org/stable/41319540](http://www.jstor.org/stable/41319540)
- 2007 Doolittle, E., & Glanfield, F. (2007). Balancing equations and culture: Indigenous educators reflect on mathematics education. *For the Learning of Mathematics*, 27(3), 27–30. [www.jstor.org/stable/40248584](http://www.jstor.org/stable/40248584)
- 2006 Berg, L. C., Longman, S., Hepting, D., & Doolittle, E. (2006). Respectful actions in research: Aboriginal adolescents speaking their future. *Delta Kappa Gamma Bulletin*, 72(3), 23–29.
- 2000 Ferrando, S. E., Doolittle, E., Bernal, A. J., & Bernal, L. J. (2000). Probabilistic matching pursuit with Gabor dictionaries. *Signal Processing*, 80(10), 2099–2120. doi:[10.1016/S0165-1684\(00\)00071-2](https://doi.org/10.1016/S0165-1684(00)00071-2)

## Book Chapters

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- future Doolittle, E., Graham, S., & Hughes, A. Division with remainder: Indigenous perspectives. Under review.
- 2025 Doolittle, E., & Hughes, A. (2025). Perhaps we didn't need a bridge: In dialogue with Indigenous mathematics. In K. Kiewitt, R. Lutz, G. Cajete, M. do C. dos S. Gonçalves, & D. K. Johanna (Eds.), *Decolonizing Western-Indigenous Dialogues: Interwoven Epistemologies for Multiple Modernities*. Bloomsbury Academic.  
[www.bloomsbury.com/ca/decolonizing-westernindigenous-dialogues-9781350425200](http://www.bloomsbury.com/ca/decolonizing-westernindigenous-dialogues-9781350425200)
- 2018 Doolittle, E. (2018). Off the Grid. In S. Gerofsky (Ed.), *Contemporary Environmental and Mathematics Education Modelling Using New Geometric Approaches: Geometries of Liberation* (pp. 101-121). Palgrave Pivot. doi:[10.1007/978-3-319-72523-9\\_7](https://doi.org/10.1007/978-3-319-72523-9_7)
- 2018 Doolittle, E. (2018). Foreword. In A. Kajander, J. Holm, & E. J. Chernoff (Eds.), *Teaching and Learning Secondary School Mathematics Canadian Perspectives in an International Context* (1st ed. 2018, pp. v-xi). Springer International Publishing. doi:[10.1007/978-3-319-92390-1](https://doi.org/10.1007/978-3-319-92390-1)

## Conference Proceedings

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- 2025 Glanfield, F., Thom, J. S., Nicol, C., & Doolittle, E. (2025). Mathematics education for STEM as place. In C. Cornejo, P. Felmer, D. M. Gómez, P. Dartnell, P. Araya, A. Peri, & V. Randolph (Eds.), *Proceedings of the 48th Conference of the International Group for the Psychology of Mathematics Education: Research Reports* (Vol. 1, pp. 307-314). PME.
- future Doolittle, E (2024). "Mathematics as a Spiritual Being". Invited talk in the *Proceedings of the Fifteenth International Conference on Mathematics Education (ICME-15)*
- 2021 Staats, S., Ugboajah, I., Chronaki, A., Doolittle, E., & Sircar, S. (2021). "There is no America without inequality": Imagining social justice writing in a calculus class. In D. Kollosche (Ed.), *Exploring new ways to connect: Proceedings of the Eleventh International Mathematics Education and Society Conference* (Vol. 1, pp. 260-263). Tredition. doi:[10.5281/zenodo.5393187](https://doi.org/10.5281/zenodo.5393187)
- 2020 Gourdeau, F., Deguire, P., LeBlanc, M., Doolittle, E., Nolan, K., Gibara, R., & Mathieu-Soucy, S. (2020). Initiating and nurturing collaborations between mathematicians and mathematics educators. In J. Holm & S. Mathieu-Soucy (Eds.), *Proceedings of the 2019 Annual Meeting of the Canadian Mathematics Education Study Group* (pp. 125-137). Canadian Mathematics Education Study Group.  
[www.cmesg.org/wp-content/uploads/2021/06/CMESG-2019-website.pdf#page=135](http://www.cmesg.org/wp-content/uploads/2021/06/CMESG-2019-website.pdf#page=135)
- 2011 Doolittle, E., Lunney Borden, L., & Wiseman, D. (2011). Can we be thankful for mathematics? Mathematical thinking and Aboriginal peoples. In P. Liljedahl, S. Oesterle, & D. Allan (Eds.), *Proceedings of the 2010 Annual Meeting of the Canadian Mathematics Education Study Group* (pp. 81-94). Canadian Mathematics Education Study Group.  
[www.cmesg.org/wp-content/uploads/2015/01/CMESG2010.pdf#page=93](http://www.cmesg.org/wp-content/uploads/2015/01/CMESG2010.pdf#page=93)
- 2007 Doolittle, E. (2007). Mathematics as medicine. In P. Liljedahl (Ed.), *Proceedings of the 2006 Annual Meeting of the Canadian Mathematics Education Study Group* (pp. 17-25). Canadian Mathematics Education Study Group.  
[www.cmesg.org/wp-content/uploads/2015/01/CMESG2006.pdf#page=31](http://www.cmesg.org/wp-content/uploads/2015/01/CMESG2006.pdf#page=31)

## Invited Talks

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- future Doolittle, E. 2025 Hagey Lecture, University of Waterloo [uwaterloo.ca/hagey-lectures/](http://uwaterloo.ca/hagey-lectures/)
- 2025 Keshen, J., Ottmann, J., Yost, C., Doolittle, E. ReconciliAction Panel, National Building Reconciliation Forum 2025, First Nations University of Canada and the University of Regina
- 2024 Doolittle, E. Mathematics as a Spiritual Being. Department of Mathematics and Statistics, University of Saskatchewan [usask.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=001c1142-f3a6-476b-bed9-b13c0037c04f](http://usask.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=001c1142-f3a6-476b-bed9-b13c0037c04f)
- 2023 Doolittle, E. Adrien Pouliot Award Prize Lecture. 2023 CMS Winter Meeting, Canadian Mathematical Society.
- 2023 Doolittle, E. Indigenizing University Mathematics. Invited plenary speaker at Alberta Mathematics Dialogue 2023
- 2021 Borwein, N., & Doolittle, E. Indigenous Mathematics. Keynote presentation at Indigenising University Mathematics 2021, University of Newcastle, Australia [carmamaths.org/meetings/iwm/video/Theme 4 - Edward and Naomi.mp4](http://carmamaths.org/meetings/iwm/video/Theme%204%20-%20Edward%20and%20Naomi.mp4)
- 2018 Doolittle, E. What is Indigenous Mathematics? Weweni Indigenous Scholars Speaker Series, University of Winnipeg [www.uwinnipeg.ca/indigenous/weweni/weweni-2018/what-is-indigenous-mathematics.html](http://www.uwinnipeg.ca/indigenous/weweni/weweni-2018/what-is-indigenous-mathematics.html)

- 2018 Doolittle, E. Geometries of Liberation. Keynote presentation at Living Mathematics in Our Communities: Listening to the Land, 8th Aboriginal Mathematics Symposium, First Nations House of Learning, University of British Columbia
- 2014 Doolittle, E. Native American Mathematics. Louise and Richard K. Guy Lecture, University of Calgary [mathtube.org/lecture/video/native-american-mathematics](http://mathtube.org/lecture/video/native-american-mathematics)
- 2014 Doolittle, E. Indigenous Mathematics. Invited speaker, N'gwii Kendaasmin (We'll Learn Together): Drawing on Indigenous Knowledges to Transform Teaching and Learning in Mathematics and Science, Ontario Institute for Studies in Education, University of Toronto
- 2014 Doolittle, E. Indigenous Mathematics. Indigenous Math and Science Symposium, University of Manitoba
- 2006 Doolittle, E. Mathematics as Medicine. Plenary speaker, 30<sup>th</sup> Annual Meeting of the Canadian Mathematics Education Study Group, University of Calgary [www.cmesg.org/wp-content/uploads/2015/01/CMESG2006.pdf#page=31](http://www.cmesg.org/wp-content/uploads/2015/01/CMESG2006.pdf#page=31)

## Articles in Periodicals

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- 2021 Doolittle, E (2021, December). Explorations in Indigenous Mathematics: Drum Lacing. *Crux Mathematicorum*, 47(10), 481-486. [cms.math.ca/publications/crux/issue/?volume=47&issue=10](http://cms.math.ca/publications/crux/issue/?volume=47&issue=10)
- 2021 Doolittle, E (2021, January). Explorations in Indigenous Mathematics: The Starblanket Design. *Crux Mathematicorum*, 47(1), 18-24. [cms.math.ca/publications/crux/issue/?volume=47&issue=1](http://cms.math.ca/publications/crux/issue/?volume=47&issue=1)
- 2020 Doolittle, E (2020, March). Mathematics and Reconciliation. *CMS Notes*, 52(2), 2-5. [notes.math.ca/en/article/mathematics-and-reconciliation/](http://notes.math.ca/en/article/mathematics-and-reconciliation/)
- 2019 Barr, D., Desaulniers, S., Doolittle, E, & Jungic, V. (2019, April). Indigenization and Reconciliation through University Mathematics: Why, When and How? *CMS Notes*, 51(2), 9-11. [notes.math.ca/archives/Notesv51n2.pdf#page=9](http://notes.math.ca/archives/Notesv51n2.pdf#page=9)

## Peer Review and Editorial Work

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- 2025 **Chair**, Expert Committee, Canada Foundation for Innovation (CFI) [www.innovation.ca](http://www.innovation.ca)
- 2024-on **Guest Editor**, *Education Sciences* special issue Indigenous Pedagogies and Perspectives in STEM and Mathematics Education: Learning that Supports the Well-Being of Self, Family, Community, Land, and Ancestors [www.mdpi.com/journal/education/special\\_issues/THJA7SLWC2](http://www.mdpi.com/journal/education/special_issues/THJA7SLWC2)
- 2024 **Referee**, *International Journal of Science and Mathematics Education* [springer.com/journal/10763](http://springer.com/journal/10763)
- 2022 **Peer Review Member**, First Nations Biobanking and Genomic Research committee, Canadian Institutes of Health Research (CIHR) [www.researchnet-recherchenet.ca/rnr16/vwOpprntyDtls.do?prog=3635](http://www.researchnet-recherchenet.ca/rnr16/vwOpprntyDtls.do?prog=3635)
- 2020 **Referee** for the *Engaged Scholar Journal: Community-Based Research, Teaching and Learning* special issue on Indigenous and Trans-Systemic Knowledge Systems [esj.usask.ca/index.php/esj/issue/view/5160](http://esj.usask.ca/index.php/esj/issue/view/5160)
- 2018 **Referee** for the *Minnesota Journal of Undergraduate Mathematics* [pubs.lib.umn.edu/index.php/mjum/](http://pubs.lib.umn.edu/index.php/mjum/)
- 2016-2017 **Referee**, *Canadian J. of Science, Mathematics, and Technology Education* [springer.com/journal/42330](http://springer.com/journal/42330)
- 2014 **Referee**, *in education* journal [journals.uregina.ca/ineducation](http://journals.uregina.ca/ineducation)
- 2012 **Member**, Multidisciplinary Assessment Committee (MAC), Canada Foundation for Innovation (CFI) [www.innovation.ca](http://www.innovation.ca)
- 2012 **Member**, Insight Grants Selection Committee (Aboriginal Research), Social Sciences and Humanities Research Council (SSHRC) [sshrc-crsh.gc.ca](http://sshrc-crsh.gc.ca)
- 2009 **Referee**, *Canadian Journal of Science, Mathematics, and Technology Education* special issue Indigenous Science Education From Place [link.springer.com/journal/42330/volumes-and-issues/9-3](http://link.springer.com/journal/42330/volumes-and-issues/9-3)
- 2005-2009 **Reviewer** for Math Makes Sense — Pearson WNCP Edition, K-9, Pearson Canada [www.pearsoncanadaschool.com/Math/products/mms-wncp-k-9.html](http://www.pearsoncanadaschool.com/Math/products/mms-wncp-k-9.html)
- 1996-1997 **Language Editor** for Ivrii, V. *Microlocal Analysis and Precise Spectral Asymptotics*. Springer.

## Reports

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- 2000 Doolittle, E. Report on the Creation of an Aboriginal Studies Course at Queen's University

## Problem Solutions

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- 2006 Doolittle, E (2006a). Solution to Problem 3026. *Crux Mathematicorum*, 32(3), 184–185.  
Doolittle, E (2006b). Solution to Problem 3028. *Crux Mathematicorum*, 32(3), 186–187.  
Doolittle, E (2006c). Solution to Problem 3029. *Crux Mathematicorum*, 32(3), 187–188.  
[cms.math.ca/publications/crux/issue/?volume=32&issue=3](http://cms.math.ca/publications/crux/issue/?volume=32&issue=3)
- 2006 Doolittle, E (2006d). Solution to Problem 3080. *Crux Mathematicorum*, 32(7), 473–475.  
[cms.math.ca/publications/crux/issue/?volume=32&issue=7](http://cms.math.ca/publications/crux/issue/?volume=32&issue=7)
- 1988 Doolittle, E (1988a). Solution to Problem 1985.305.8. *Crux Mathematicorum*, 14(2), 42–43.  
Doolittle, E (1988b). Solution to Problem 1985.305.10. *Crux Mathematicorum*, 14(2), 43–44.  
[cms.math.ca/publications/crux/issue/?volume=14&issue=2](http://cms.math.ca/publications/crux/issue/?volume=14&issue=2)
- 1988 Doolittle, E (1988c). Solution to Problem 1985.305.11. *Crux Mathematicorum*, 14(3), 68–69.  
Doolittle, E (1988d). Solution to Problem 1985.306.19. *Crux Mathematicorum*, 14(3), 70–71.  
Doolittle, E (1988e). Solution to Problem 1985.306.20. *Crux Mathematicorum*, 14(3), 71.  
Doolittle, E (1988f). Solution to Problem 1985.307.22. *Crux Mathematicorum*, 14(3), 71–72.  
Doolittle, E (1988g). Solution to Problem 1985.307.23. *Crux Mathematicorum*, 14(3), 72.  
Doolittle, E (1988h). Solution to Problem 1985.307.26. *Crux Mathematicorum*, 14(3), 73–74.  
Doolittle, E (1988i). Solution to Problem 1985.307.27. *Crux Mathematicorum*, 14(3), 74–75.  
[cms.math.ca/publications/crux/issue/?volume=14&issue=3](http://cms.math.ca/publications/crux/issue/?volume=14&issue=3)
- 1988 Doolittle, E (1988j). Solution to Problem 1986.3.1. *Crux Mathematicorum*, 14(4), 102–103.  
Doolittle, E (1988k). Solution to Problem 1986.4.2. *Crux Mathematicorum*, 14(4), 103.  
Doolittle, E (1988l). Solution to Problem 1986.4.3. *Crux Mathematicorum*, 14(4), 103.  
Doolittle, E (1988m). Solution to Problem 1986.4.4. *Crux Mathematicorum*, 14(4), 104.  
[cms.math.ca/publications/crux/issue/?volume=14&issue=4](http://cms.math.ca/publications/crux/issue/?volume=14&issue=4)

## Open Software

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- 2025 **Curriculum Vitae**, adaptation of a GitHub template for developing a readable curriculum vitae in  $\text{\LaTeX}$ .  
 [edoolittle/cv](https://github.com/edoolittle/cv)
- 2025 **Outlook Macros**, Visual Basic for Applications macros for use with Microsoft Outlook.  [edoolittle/outlookMacros](https://github.com/edoolittle/outlookMacros)

## Open Educational Resources

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- 2025 **Calculus I**, resources including Beamer slides, problem sets, and solutions, for use in conjunction with Stewart Calculus.  [edoolittle/calculus-1](https://github.com/edoolittle/calculus-1)

## Selected Presentations, Workshops, and Other Media

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- 2025 Doolittle, E. Rotations in Indigenous Mathematics and in Mathematics Education. Talk at The Math Bundle, Banff International Research Station (BIRS) workshop 25w5472
- 2025 Doolittle, E. Indigenous Students and Mathematics Competitions, Math Unity: Enhancing Diversity in Mathematics Through Outreach, 2025 Canadian Mathematical Society Summer Meeting
- 2025 Doolittle, E. Indigenous Games in Statistics Education and Research, Indigenizing the statistics curriculum, 2025 Statistical Society of Canada Annual Meeting [tinyurl.com/indigenous-games-stats-ed-pptx](http://tinyurl.com/indigenous-games-stats-ed-pptx)
- 2025 Doolittle, E. Division with Remainder: Indigenous Perspectives. Alberta Mathematics Dialogue 2025, University of Calgary [tinyurl.com/division-with-remainder-pptx](http://tinyurl.com/division-with-remainder-pptx)
- 2025 Doolittle, E. Tips and Tricks for UR Courses. FNUniv Instructors Lunch and Learn, First Nations University of Canada [urcourses.uregina.ca/mod/page/view.php?id=2932292&forceview=1](http://urcourses.uregina.ca/mod/page/view.php?id=2932292&forceview=1)
- 2025 Doolittle, E. Mathematics as Story. Storytelling through Art, Language, and Action, 15<sup>th</sup> Annual Storytellers Conference, Department of Indigenous Studies, State University of New York at Buffalo

- 2024 Doolittle, E. String Figures and Knots. Aboriginal and Torres Strait Islander Mathematics Alliance (ATSIMA) STEM Camp, Birrigai Outdoor School, Australian Capital Territory
- 2024 Doolittle, E. Presenter and Organizer for Indigenising University Mathematics 3 international conference held at La Trobe University, Melbourne, Australia
- 2023 Doolittle, E. Better Living Through Combinatorics. Topic Session at the 47<sup>th</sup> Annual Meeting of the Canadian Math Education Study Group
- 2023 Doolittle, E., Glanfield, F., Nicol, C., & Thom, J. (2023, September 1). Indigenous Math Podcast 1 (No. 1) [Broadcast]. CFNU Radio, First Nations University of Canada. [www.cfnuradio.ca/voices/](http://www.cfnuradio.ca/voices/)
- 2023 Doolittle, E., & Czuy, K. (2023, June 3). Mathematics is Creation, Being, & Medicine (No. 15) [Broadcast]. Ancestral Science Podcast, Relational Science Circle [open.spotify.com/episode/21oDjAQvZIOVWIIRh3CaKS](https://open.spotify.com/episode/21oDjAQvZIOVWIIRh3CaKS)
- 2022 Doolittle, E. Indigenous Maths, Global Math, and Indigenizing Mathematics. The Centre for Indigenous Knowledges and Languages (CIKL), and the Department of Mathematics and Statistics, York University [www.youtube.com/watch?v=ptk\\_Ga43Wg](https://www.youtube.com/watch?v=ptk_Ga43Wg)
- 2022 Doolittle, E. Presenter and Organizer for Indigenizing University Mathematics 2 international conference held at First Nations University of Canada and Yamuloong Centre, Garden Suburb, Australia
- 2022 Doolittle, E. Bridging Indigenous Mathematics and Global Mathematics. Turtle Island Indigenous Science Conference 2022, University of Manitoba
- 2022 Doolittle, E., Russell, G., & Ricketts, K. 'Tent Talk' on Indigenous Mathematics. Teaching and Learning Here and Now 2022 conference at the University of Regina
- 2022 Doolittle, E., & Native Stories. (2022, April 3). Indigenous Mathematicians Podcast: Edward Doolittle [Broadcast] [nativestories.org/indigenous-mathematicians-edward-doolittle/](https://nativestories.org/indigenous-mathematicians-edward-doolittle/)
- 2022 Doolittle, E. Mathematics and Reconciliation. Interdisciplinary Research Institute for Mathematical and Statistical Modelling in Scientific Discovery, Innovation and Sustainability (MS2Discovery), Wilfrid Laurier University
- 2021 Doolittle, E. Indigenizing Mathematics, University of Toronto Mathematics Department Equity Forum
- 2021 Leung, F-S, Radzimski, V, & Doolittle, E. Reimagining Authentic Mathematical Tasks Non-STEM Majors, Paper Panel Presentation A, Fields MathEd Forum: (Re)imagining the M in STEM
- 2020 Doolittle, E. Online presentation on Indigenous mathematics for Teachers for the Federation of Sovereign Indigenous Nations (FSIN), Saskatchewan
- 2020 Doolittle, E. Indigenizing math education at the post-secondary level, Online presentation for Langara College
- 2019 Doolittle, E., & Russell, G. Mathematics as a Tool for Colonization, keynote presentation at Provoking Curriculum 2019, Faculty of Education, University of Regina
- 2019 Doolittle, E., & Nolan, K. Initiating and Nurturing Collaborations Between Mathematicians and Mathematics Educators, panel presentation at the 2019 Annual Meeting of the Canadian Mathematics Education Study Group (CMESG)
- 2019 Doolittle, E. Word Puzzles in Indigenous Languages, presentation at the Canadian Mathematical Society summer meeting
- 2019 Doolittle, E. Mathematics of Indigenous Games, a talk for high school students at Campbell Collegiate high school in Regina
- 2019 Doolittle, E. MATH 101 for Indigenous Students, presentation at the Canadian Mathematical Society winter meeting
- 2019 Leung, F.-S., Doolittle, E, Zazkis, R., & Marken, K. Looking In, panel presentation at Innovations in New Instructor Training, Banff International Research Station workshop 19w2231 [www.birs.ca/events/2019/2-day-workshops/19w2231/videos/watch/201906220942-Doolittle.html](https://www.birs.ca/events/2019/2-day-workshops/19w2231/videos/watch/201906220942-Doolittle.html)
- 2018 Russell, G., Bazzul, J., Doolittle, E, Donald, D., Higgins, M., & Ji, X. Exploring Indigenous Spiritualities In-Relation: How Might Science and Math Education Become Different? Panel at the Canadian Society for the Study of Education XLVI Annual Conference
- 2017 Doolittle, E. Harmonics, Nodal Lines, and Acoustic Levitation, keynote presentation at the Treaty 4 Math Fair in Fort Qu'appelle, Saskatchewan
- 2017 Doolittle, E. Transformations, Symmetry, and the Starblanket, a talk for Grade 9 students at Campbell Collegiate high school in Regina
- 2016 Doolittle, E. From String Figures to the Fields Medal at the 6th Aboriginal Students in Math and Science Workshop for Indigenous high school students at Simon Fraser University

- 2016 Doolittle, E. An Exploration of the Fibonacci Sequence at Discover Your Direction, an event to encourage Indigenous grade 10 students to attend university
- 2016 Doolittle, E. Indigenous String Figures for the Science Showcase Series, First Nations University
- 2015 Doolittle, E. Indigenous Students of Mathematics, 17th Annual Meeting of Canadian Mathematics Department Chairs
- 2015 CBC & Doolittle, E. "Residential Schools Robbed Edward Doolittle of the Mohawk Language. Then He Reclaimed It." CBC Radio, June 4, 2015. [tinyurl.com/www-cbc-ca-radio-asithappens](http://tinyurl.com/www-cbc-ca-radio-asithappens)
- 2015 Doolittle, E. The Development of a Plains Cree Pangrammatic Autogram at STEMfest, an international conference, in Saskatoon
- 2014 Doolittle, E. Cree Syllabic Crosswords, FNUniv Endangered Alphabets conference
- 2014 Doolittle, E. Indigenous Math Education, University of Regina/High School Transitions Committee Joint Professional Development conference
- 2013 Doolittle, E. Mathematics of Planet Earth: Graph Theory of the Food Chain for the Science Camp for Aboriginal Youth, First Nations University
- 2013 Doolittle, E. Word Puzzles in Cree at the fourth annual Math and Science for Aboriginal Students conference at Simon Fraser University
- 2013 Doolittle, E. Manipulatives in High School Math Education series of workshops for the Yorkton Tribal Council
- 2012 Doolittle, E. Graph Theory in an Indigenous Context, in First Nations Math Education, Banff International Research Station workshop 12w5076  
[www.birs.ca/events/2012/5-day-workshops/12w5076/videos/watch/201211210914-Doolittle.html](http://www.birs.ca/events/2012/5-day-workshops/12w5076/videos/watch/201211210914-Doolittle.html)
- 2012 Doolittle, E. Seeing Sounds, Science Camp for Aboriginal Youth, First Nations University
- 2011 Doolittle, E. Mazes and Explorobots for the Science Camp for Aboriginal Youth, First Nations University
- 2010 Doolittle, E. Aboriginal Perspectives in the Saskatchewan Mathematics Curriculum, Emerging Professionalism Conference, Faculty of Education, University of Regina
- 2009 Doolittle, E. Music and Signal Processing, presentation to Aboriginal K-12 students at the Kehewin Education Institute
- 2009 Doolittle, E. Teaching Aboriginal Perspectives in High School Mathematics at the Sun Country School District Professional Development Conference
- 2005 Doolittle, E. Building Community through Science Curriculum Actualization, Awasis Conference (organized by the Saskatchewan Teachers' Federation)
- 2002 Doolittle, E. Knots in Aboriginal Mathematics Education, Guest lecture for the Aboriginal Teacher Education Program, Queen's University
- 1998 Doolittle, E. Issues in the Mathematics Education of Aboriginal Students, Engineering Explorations Concordia University
- 1998 Doolittle, E. Seeing Sounds, Blueprint for the Future, National Aboriginal Achievement Foundation
- 1998 Doolittle, E. Graduation Address, Grand River Post-Secondary Education student recognition dinner
- 1997 Doolittle, E. Experiences of Indigenous Students, Native Science Dialogue, University of Toronto
- 1997 Doolittle, E. Mathematics as a Spiritual Endeavour, Aboriginal Youth Career Symposium
- 1996 Doolittle, E. Introduction of Hopi filmmaker Victor Masayesva Jr., Editing Aboriginal Oral Texts: the thirty-second annual Conference on Editorial Problems, University of Toronto [coilink.org/20.500.12592/xdq1t6](http://coilink.org/20.500.12592/xdq1t6)
- 1995 Doolittle, E. Native Mathematics, Native Issues Seminar, First Nations House, University of Toronto
- 1995 Doolittle, E. Native Mathematics Education, Native Science Teachers Camp, University of Toronto

## Selected Teaching Experience

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- 2020-on **Professor**, MATH 110 (Calculus I) remote modality (online, synchronous), First Nations University of Canada
- 2020-on **Mentor**, Putnam Competition Training, University of Regina
- 2023 **Sessional Lecturer**, EDPJ/EDJI 1100 (Mathematics Education for Primary/Junior/Intermediate) for the Waaban Indigenous Education Program at York University

2013–2014	<b>Professor</b> , AMTH 001/091/092 (Adult Mathematics) for community-based access programs in Onion Lake and Piapot First Nations, First Nations University
2012	<b>Professor</b> , MATH 101 for the community-based Aboriginal Teacher Education Program (Fort Qu'appelle), First Nations University
2018	<b>Professor</b> , EMTH 215 (Elementary Mathematics Education), Department of Indigenous Education, First Nations University
2001	<b>Instructor</b> , Leadership and Management, Grand River Polytechnic, Six Nations
2000	<b>Lecturer</b> , Native Studies, Faculty of Environmental Studies, York University
1999–2001	<b>Lecturer</b> , ABS201Y (Aboriginal Studies), Faculty of Arts and Science, University of Toronto
1998–1999	<b>Instructor</b> , Elementary Mathematics Education, Aboriginal Teacher Education Program, Faculty of Education, Queen's University
1999	<b>Instructor</b> , Business Math, First Nation Management Training and Confederation College, Sioux Lookout
1997–1998	<b>Lecturer</b> , MAT 188F/196F (Linear Algebra/Calculus), Faculty of Engineering, University of Toronto
1997	<b>Lecturer</b> , MAT135Y (Calculus I), Faculty of Arts and Science, University of Toronto
1996	<b>Lecturer</b> , MAT186F (Calculus IB), Faculty of Engineering, University of Toronto
1992–1994	<b>Academic Counselor</b> , First Nations House, University of Toronto
1986–1996	<b>Teaching Assistant</b> , Department of Mathematics, University of Toronto

## Selected Community Service

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2023–2025	<b>Member</b> , Academic Performance Review Committee, First Nations University of Canada <a href="http://www.fnuniv.ca">www.fnuniv.ca</a>
2023–2024	<b>Member</b> , Local Organizing Committee, 2024 Turtle Island Indigenous Science Conference, University of Regina and First Nations University of Canada <a href="http://event.fourwaves.com/2024tiisc/pages/8c2de33c-254b-4cc1-a379-dfc8e2621e19">event.fourwaves.com/2024tiisc/pages/8c2de33c-254b-4cc1-a379-dfc8e2621e19</a>
2022–2024	<b>Executive Member</b> , Canadian Mathematics Education Study Group <a href="http://www.cmesg.org">www.cmesg.org</a>
2021–on	<b>Member</b> , Canada Jay Mathematical Competition committee, Canadian Mathematical Society <a href="http://cms.math.ca/competitions/cjmc/">cms.math.ca/competitions/cjmc/</a>
2020–2027	<b>Member</b> , Mathematics and Reconciliation Committee, Canadian Mathematical Society <a href="http://cms.math.ca/about-the-cms/governance/committees/#rmc">cms.math.ca/about-the-cms/governance/committees/#rmc</a>
2019–on	<b>Member</b> , Bargaining Team, First Nations University of Canada Academic Bargaining Unit, University of Regina Faculty Association <a href="http://www.urfa.ca">www.urfa.ca</a>
2018–2022	<b>Mentor</b> , Verna J. Kirkness Foundation program <a href="http://www.vernajkirkness.org">www.vernajkirkness.org</a>
2018	<b>Judge</b> , Yakutia International Science Fair in Yakutsk, Russia <a href="http://ysf.lensky-kray.ru/en/">ysf.lensky-kray.ru/en/</a>
2017–on	<b>Judge</b> , and <b>Chair of a Judging Group</b> , Canada Wide Science Fair <a href="http://cwsf-espc.ca">cwsf-espc.ca</a>
2017	<b>Judge</b> , File Hills Qu'appelle Tribal Council Science Fair
2017	<b>Judge</b> , Treaty 4 Math Fair
2015–on	<b>Member</b> , Pension and Benefits Committee, First Nations University of Canada <a href="http://www.fnuniv.ca">www.fnuniv.ca</a>
2015–2017	<b>Secretary/Treasurer</b> , Native Heritage Foundation of Canada
2013–2014	<b>Chair</b> , First Nations Environmental Contaminants Program (FNECP) Selection Committee <a href="http://www.sac-isc.gc.ca/eng/1583779185601/1583779243216">www.sac-isc.gc.ca/eng/1583779185601/1583779243216</a>
2010	<b>Tax Policy Consultant</b> , Chiefs of Ontario <a href="http://chiefs-of-ontario.org">chiefs-of-ontario.org</a>
2010	<b>Member</b> , Academic Reform Task Force, First Nations University of Canada <a href="http://www.fnuniv.ca">www.fnuniv.ca</a>
2010	<b>Webmaster</b> , <i>Fund First Nations University Now!</i> blog <a href="http://fnuniv.wordpress.com">fnuniv.wordpress.com</a>
2007	<b>Mentor</b> , Canada's International Math Olympiad team <a href="http://www.birs.ca/events/2007/summer-schools/07ss005">www.birs.ca/events/2007/summer-schools/07ss005</a>
2006–2008	<b>Member</b> , Canadian Mathematical Olympiad committee <a href="http://cms.math.ca/competitions/cmo/">cms.math.ca/competitions/cmo/</a>
2003–2005	<b>Member</b> , President's International Alumni Council, University of Toronto <a href="http://www.utoronto.ca">www.utoronto.ca</a>
1999–2002	<b>Member</b> , National Aboriginal Achievement Foundation Postsecondary Awards Jury
1996–1997	<b>Graduate Student Representative</b> , Aboriginal Advisory Council, University of Toronto <a href="http://www.utoronto.ca">www.utoronto.ca</a>

## Research Impact: Selected Citations of My Work

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- 2025 Bakan, G., & Bircan, M. A. (2025). Enhancing 21st century skills of primary school students in rural areas through STEM activities. *The Journal of Educational Research*, 0(0), 1–16. doi:[10.1080/00220671.2025.2517265](https://doi.org/10.1080/00220671.2025.2517265)
- 2025 Beumann, S., Weber, D., & Benölken, R. (2025). Identifying and Fostering Giftedness in Students with Disabilities – Potential Barriers in Identification and Support from a Mathematics Educational Perspective. *International Journal of Science and Mathematics Education*. doi:[10.1007/s10763-025-10587-2](https://doi.org/10.1007/s10763-025-10587-2)
- 2025 Du, W., Cao, Y., Tang, M., Wang, F., & Wang, G. (2025). Factors influencing AI adoption by Chinese mathematics teachers in STEM education. *Scientific Reports*, 15(1), 20429. doi:[10.1038/s41598-025-06476-x](https://doi.org/10.1038/s41598-025-06476-x)
- 2025 Lu, J., Si, H., Xu, J., & Xu, T. (2025). An overview of applications and trends of STEM for learning effectiveness – An umbrella review based on 22 meta-analyses. *Educational Research Review*, 100712. doi:[10.1016/j.edurev.2025.100712](https://doi.org/10.1016/j.edurev.2025.100712)
- 2025 Pasco, G., Oledan, A. M., Saromines, C. J., & Luga, M. J. (2025). Development of a Contextualized Teaching Portfolio for Higaonon Learners. *Journal of Innovation, Advancement, and Methodology in STEM Education*, 2(5), 416–435. [so13.tci-thaijo.org/index.php/J\\_IAMSTEM/article/view/2225](https://so13.tci-thaijo.org/index.php/J_IAMSTEM/article/view/2225)
- 2025 Skyer, M. E., & McKay-Cody, M. (2025). Deaf and Indigenous Curricula and Eco-Pedagogies: Hybridizing Languacultures and Biocultures for Sustainable STEAM Education Founded on Collaboration, Mutualism, and Symbiosis. *Education Sciences*, 15(9), 1132. doi:[10.3390/educsci15091132](https://doi.org/10.3390/educsci15091132)
- 2024 Abtahi, Y., & Planas, N. (2024). Mathematics teaching and teacher education against marginalisation, or towards equity, diversity and inclusion. *ZDM – Mathematics Education*, 56(3), 307–318. doi:[10.1007/s11858-024-01602-x](https://doi.org/10.1007/s11858-024-01602-x)
- 2024 Anderson, J. (2024). How mathematics in STEM can contribute to responsible citizenship education in schools. In J. Anderson & K. Makar (Eds.), *The Contribution of Mathematics to School STEM Education: Current Understandings* (pp. 243–256). Springer Nature. doi:[10.1007/978-981-97-2728-5\\_14](https://doi.org/10.1007/978-981-97-2728-5_14)
- 2024 Loh, K. Q., & Dasgupta, M. (2024, July 24). The forces of stage design: An interdisciplinary approach to teaching normal force, frictional force, and design ethics for non-STEM majors. 2023 ASEE Midwest Section Conference. doi:[10.18260/1-2-660.1137-46369](https://doi.org/10.18260/1-2-660.1137-46369)
- 2024 Rosa, M., & Orey, D. C. (2024). Contributions of the pedagogical Action of ethnomodelling to STEM Education. In J. Anderson & K. Makar (Eds.), *The Contribution of Mathematics to School STEM Education: Current Understandings* (pp. 277–293). Springer Nature. doi:[10.1007/978-981-97-2728-5\\_16](https://doi.org/10.1007/978-981-97-2728-5_16)
- 2023 Nordkild, S. I., & Hætta, O. E. (2023). Mathematics teaching in lávvues from the perspectives of Indigenous education and critical peace education. *Journal of Peace Education*, 20(2), 176–195. doi:[10.1080/17400201.2023.2206731](https://doi.org/10.1080/17400201.2023.2206731)
- 2023 Ortega-Álvarez, R., & Casas, A. (2023). Biocultural salient birds: Which biological and cultural factors define them? *Frontiers in Conservation Science*, 4. doi:[10.3389/fcosc.2023.1215967](https://doi.org/10.3389/fcosc.2023.1215967)
- 2023 Retana-Guiascón, O. G., Santos-Fita, D., Pereyra-Camaal, A., Mejenes-López, S. de M. A., & Vargas-Soriano, J. (2023). Conocimiento morfo-anatómico de las aves por mayas yucatecos. *Huitzil*, 24(1). doi:[10.28947/hrmo.2023.24.1.720](https://doi.org/10.28947/hrmo.2023.24.1.720)
- 2023 Xenofontos, C., & Mouroutsou, S. (2023). Resilience in mathematics education research: A systematic review of empirical studies. *Scandinavian Journal of Educational Research*, 67(7), 1041–1055. doi:[10.1080/00313831.2022.2115132](https://doi.org/10.1080/00313831.2022.2115132)
- 2022 Guano, E., & Moretti, C. (2022). A tale of two ethnographers: Urban anthropologists read Invisible Cities. In B. Linder (Ed.), *“Invisible Cities” and the Urban Imagination* (pp. 117–130). Springer International Publishing. doi:[10.1007/978-3-031-13048-9\\_9](https://doi.org/10.1007/978-3-031-13048-9_9)
- 2022 Khan, S., & Bowen, G. M. (2022). Why Multispecies’ Flourishing? *Journal of Research in Science, Mathematics and Technology Education*, 5(1), 1–10. doi:[10.31756/jrsmte.515](https://doi.org/10.31756/jrsmte.515)
- 2022 Khan, S., LaFrance, S., & Tran, H. T. T. (2022). After plantations’ precarities: Curating math-thematic curriculum plots in initial teacher education for multispecies’ flourishing and a freedom-yet-to-come. *Research in Mathematics Education*, 24(2), 170–186. doi:[10.1080/14794802.2022.2090421](https://doi.org/10.1080/14794802.2022.2090421)

- 2022 Rubel, L. H., Herbel-Eisenman, B., Peralta, L. M., Lim, V., Jiang, S., & Kahn, J. (2022). Intersectional feminism to reenvision mathematical literacies & precarity. *Research in Mathematics Education*, 24(2), 224–248. doi:[10.1080/14794802.2022.2089908](https://doi.org/10.1080/14794802.2022.2089908)
- 2022 Stavrou, S. G., & Murphy, M. S. (2022). Failures Indigenising school mathematics: A narrative inquiry. *The Australian Journal of Indigenous Education*, 51(2). doi:[10.55146/ajie.v51i2.40](https://doi.org/10.55146/ajie.v51i2.40)
- 2021 La France, S. (2021). *Engaging in Speculation and Critical Reflection About Future Assessment Practice* [MEd, University of Alberta]. [tinyurl.com/thesis-lafrance-2021-09](http://tinyurl.com/thesis-lafrance-2021-09)
- 2021 Maciejewski, W. (2021). Teaching math in real time. *Educational Studies in Mathematics*, 108(1), 143–159. doi:[10.1007/s10649-021-10090-9](https://doi.org/10.1007/s10649-021-10090-9)
- 2021 Meyer, S., & Aikenhead, G. (2021). Indigenous culture-based school mathematics in action part II: The study's results: what support do teachers need? *The Mathematics Enthusiast*, 18(1–2), 119–138. doi:[10.54870/1551-3440.1517](https://doi.org/10.54870/1551-3440.1517)
- 2021 Schiano, B. A. (2021). *Redesigning Developmental Math to Improve Community College Retention Rates and Student Success* [EdD, Centenary University]. [www.proquest.com/docview/2524205938/abstract/6D9302DD5E3A4935PQ/1](http://www.proquest.com/docview/2524205938/abstract/6D9302DD5E3A4935PQ/1)
- 2021 Watson, A. (2021). Mathematics Education in Indigenous Communities. In A. Watson (Ed.), *Care in Mathematics Education: Alternative Educational Spaces and Practices* (pp. 95–125). Springer International Publishing. doi:[10.1007/978-3-030-64114-6\\_6](https://doi.org/10.1007/978-3-030-64114-6_6)
- 2020 Abtahi, Y. (2020). The “M” in STEM as a Note of Caution: Resilient to What and Responsive to Whose Culture. *Canadian Journal of Science, Mathematics, and Technology Education*, 20(2), 281–287. doi:[10.1007/s42330-020-00093-8](https://doi.org/10.1007/s42330-020-00093-8)
- 2020 Aikenhead, G. (2020). School Science and Mathematics Storylines. *Canadian Journal of Science, Mathematics, and Technology Education*, 20(4), 682–699. doi:[10.1007/s42330-020-00115-5](https://doi.org/10.1007/s42330-020-00115-5)
- 2020 McDougall, D. (2020). Building Knowledge in a Time of Physical Distancing. *Canadian Journal of Science, Mathematics, and Technology Education*, 20(2), 167–170. doi:[10.1007/s42330-020-00096-5](https://doi.org/10.1007/s42330-020-00096-5)
- 2017 Aikenhead, G. S. (2017). Enhancing School Mathematics Culturally: A Path of Reconciliation. *Canadian Journal of Science, Mathematics, and Technology Education*, 17(2), 73–140. doi:[10.1080/14926156.2017.1308043](https://doi.org/10.1080/14926156.2017.1308043)
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## Research Impact: Selected Acknowledgments of My Work

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