

ORCID: [0009-0000-2155-8749](https://orcid.org/0009-0000-2155-8749)

Email: [edoolittle@firstnationsuniversity.ca](mailto:edoolittle@firstnationsuniversity.ca)

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

Associate Professor of Mathematics

Department of Indigenous Knowledges and Science

First Nations University of Canada

1 First Nations Way, Regina, Saskatchewan, S4S7K2, Canada

## Current Professional Appointments

- 2024–on **Associate Dean, Research and Graduate Studies**, 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, [www.fnuniv.ca](http://www.fnuniv.ca)
- 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, [www.fnuniv.ca](http://www.fnuniv.ca)
- 2001–2002 **Assistant Professor of Mathematics**, Saskatchewan Indian Federated College

## Community Service

- 2023–on **Chair**, Mathematics and Reconciliation Committee, Canadian Mathematical Society, [cms.math.ca](http://cms.math.ca)
- 2022–on **Board Member**, Board of Equity, Diversity and Inclusion, Fields Institute for Research in Mathematical Sciences, [www.fields.utoronto.ca](http://www.fields.utoronto.ca)
- 2021–on **Committee Member**, Indigenous Engagement Committee, Pacific Institute for the Mathematical Sciences, [www.pims.math.ca](http://www.pims.math.ca)
- 2020–on **Board Member**, Board of Equity, Diversity, and Inclusion, Banff International Research Station, [www.birs.ca](http://www.birs.ca)
- 2020–2023 **Committee Member**, Mathematics and Reconciliation Committee, Canadian Mathematical Society, [cms.math.ca](http://cms.math.ca)
- 2019–on **Judge**, National Judging Team, Youth Science Canada, [youthscience.ca](http://youthscience.ca)
- 2018–on **Trustee**, Trust Fund Committee, University of Regina Faculty Association, [www.urfa.ca](http://www.urfa.ca)

## Education

- 1992–1997 **PhD in Mathematics**, University of Toronto, [www.utoronto.ca](http://www.utoronto.ca)  
Thesis: A Parametrix for Stable Step Two Hypoelliptic Partial Differential Operators  
Advisor: Professor Peter Greiner
- 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)

## Indian Status

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/awards/fellows-of-the-cms/](https://cms.math.ca/awards/fellows-of-the-cms/)
- 2023 **Adrien Pouliot Award**, Canadian Mathematical Society [cms.math.ca/awards/adrien-pouliot-award/](https://cms.math.ca/awards/adrien-pouliot-award/)
- 1992 **Governor General's Gold Medal** [www.gg.ca/en/honours/recipient/116-5733](https://www.gg.ca/en/honours/recipient/116-5733)
- 1987 **Honorable Mention**, William Lowell Putnam Mathematical Competition  
[kskedlaya.org/putnam-archive/putnam1987results.html](https://kskedlaya.org/putnam-archive/putnam1987results.html)

## Grants

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- 2025 **The Math Bundle**. Banff International Research Station 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**. SSHRC Partnership Grant.  
Jobin, S (PI), Doolittle, E., et. al (\$2.5 million over 6 years)  
[www.sshrc-crsh.gc.ca/results-resultats/recipient-recipientaires/2023/pg-sp-eng.aspx](https://www.sshrc-crsh.gc.ca/results-resultats/recipient-recipientaires/2023/pg-sp-eng.aspx)
- 2024–2026 **The Mathematics of Indigenous Games**. First Nations University Board of Governors Grant.  
Doolittle, E. (PI); Fallat, S; Burns, L (\$5000 over 2 years)
- 2023–2028 **Mathematics Education for STEM as Place**. SSHRC Insight Grant.  
Nicol, C (PI), Doolittle, E., Glanfield, F, Thom, J (\$360,000 over 5 years)  
[www.sshrc-crsh.gc.ca/results-resultats/recipient-recipientaires/2021/ig-ss-eng.aspx](https://www.sshrc-crsh.gc.ca/results-resultats/recipient-recipientaires/2021/ig-ss-eng.aspx)
- 2022–2027 **Banff International Research Station**. NSERC Discovery Institutes Support Grants.  
Pramanik, M (PI), Behjat, L, Doolittle, E., Frappier, M, Husain, V, Lewis, M, Sun, L. (\$5 million over 5 years)  
[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)  
[www.nserc-crsng.gc.ca/ase-oro/Details-Detailles\\_eng.asp?id=758456](https://www.nserc-crsng.gc.ca/ase-oro/Details-Detailles_eng.asp?id=758456)
- 2013 **Understanding Relationships between Aboriginal Knowledge Systems, Wisdom Traditions, and Mathematics: Research Possibilities**. 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)
- 2009–2011 **Creating a Research Network to Develop an Understanding of Relationships between Aboriginal Knowledge Systems, Wisdom Traditions, and Mathematics Education**  
SSHRC Aboriginal Research Development Grant.  
Glanfield, F (PI), Donald, D, Doolittle, E., Sterenberg G (\$25,000 over 2 years)  
[www.outil.ost.uqam.ca/crsh/Detail.aspx?Cle=78132&Langue=2](https://www.outil.ost.uqam.ca/crsh/Detail.aspx?Cle=78132&Langue=2)

## Supervision

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- 2024–on Layne Burns, MSc in Mathematics, University of Regina (**Supervisor**)
- 2023–2024 Layne Burns, NSERC [USRA](#), First Nations University of Canada (**Supervisor**)
- 2023–on John Porrit, MA in Mathematics Education, University of Regina (**Co-supervisor**)
- 2023–on Ehdaa Matia, PhD in Mathematics Education, University of Regina (**Committee Member**)
- 2022–2023 Shana Graham, Postdoctoral Fellowship, University of Regina (**Co-supervisor**)
- 2020–on Tannen Acoose, PhD in Mathematics, University of Regina (**Committee Member**)
- 2018 Vanessa Braun, MA in Mathematics Education, University of Regina (**Committee Member**)
- 2017–2020 Shana Graham, PhD in Mathematics Education, University of Regina (**Committee Member**)
- 2012–2017 Tannen Acoose, MSc in Mathematics, University of Regina (**Co-supervisor**)
- 2003–2005 Meseret Bowden, MSc in Mathematics, University of Regina (**Supervisor**)

## Papers in Refereed Journals

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- 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.org/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.org/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.org/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.org/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.org/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. (2025). Division with remainder: Indigenous perspectives.
- future Doolittle, E., & Hughes, A. (2025). Perhaps we didn't need a bridge: In dialogue with Indigenous mathematics. In *Decolonizing Western-Indigenous Dialogues: Interwoven Epistemologies for Multiple Modernities*. Bloomsbury Academic.
- 2018 Doolittle, E. (2018). Off the Grid. In S. Gerofsky (Ed.), *Contemporary Environmental and Mathematics Education Modelling Using New Geometric Approaches* (pp. 101–121). Springer International Publishing AG. [doi.org/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.org/10.1007/978-3-319-92390-1](https://doi.org/10.1007/978-3-319-92390-1)

## Articles in Periodicals

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- 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](https://cms.math.ca/publications/crux/issue/?volume=47&issue=1)
- 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](https://cms.math.ca/publications/crux/issue/?volume=47&issue=10)
- 2020 Doolittle, E. (2020, March). Mathematics and Reconciliation. *CMS Notes*, 52(2), 2–5. [notes.math.ca/en/article/mathematics-and-reconciliation/](https://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](https://notes.math.ca/archives/Notesv51n2.pdf)

## Conference Proceedings

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- 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.org/10.5281/zenodo.5393187](https://doi.org/10.5281/zenodo.5393187)

- 2010 Doolittle, E., Lunney Borden, L., & Wiseman, D. (2011, May). Can We Be Thankful for Mathematics? Mathematical Thinking and Aboriginal Peoples. Proceedings of the 2010 Annual Meeting of the Canadian Mathematics Education Study Group = Actes de La Rencontre Annuelle 2010 Du Groupe Canadien d'Etude En Didactique Des Mathematiques (34th, Burnaby, British Columbia, Canada, May 21-25, 2010).  
[www.cmesg.org/wp-content/uploads/2015/01/CMESG2010.pdf](http://www.cmesg.org/wp-content/uploads/2015/01/CMESG2010.pdf)
- 2006 Doolittle, E. (2007, May). Mathematics as Medicine. Proceedings of the 2006 Annual Meeting of the Canadian Mathematics Education Study Group = Actes de La Rencontre Annuelle 2006 Du Groupe Canadien d'Etude En Didactique Des Mathematiques (30th, Calgary, Alberta, Canada, Jun 3-7, 2006).  
[www.cmesg.org/wp-content/uploads/2015/01/CMESG2006.pdf](http://www.cmesg.org/wp-content/uploads/2015/01/CMESG2006.pdf)

## Peer Review and Editorial Work

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- 2020 **Referee** for the *Engaged Scholar* journal: Community-Based Research, Teaching and Learning special issue on Trans-systemic and Indigenous Knowledges
- 2016–2017 **Referee** for *Canadian Journal of Science, Mathematics and Technology Education* special issue on Indigenous Mathematics Education
- 2014 **Referee** for a paper on Indigenous Math Education for the journal *in education*
- 2009 **Referee** for the *Canadian Journal of Science, Mathematics and Technology Education* special issue on Indigenous Science through Place
- 2005–2009 **Reviewer** for Pearson Education's *Math Makes Sense* K-12 textbook series for the Western and Northern Canadian Protocol (WNCP) curriculum
- 1996–1997 **Language Editor** for Ivrii, V. *Microlocal Analysis and Precise Spectral Asymptotics*. Springer Verlag

## 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)

## Selected Presentations, Workshops, and Other Media

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- 2024 Doolittle, E.. Mathematics as a Spiritual Being. Invited talk at the Department of Mathematics, University of Saskatchewan
- 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 2023 Canadian Math Education Study Group Conference.
- 2023 Doolittle, E.. (2023, September 1). Indigenous Math Podcast 1 (No. 1) [Broadcast]. [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]. [open.spotify.com/episode/21oDjAQvZIOVWIIRh3CaKS](https://open.spotify.com/episode/21oDjAQvZIOVWIIRh3CaKS)
- 2022 Doolittle, E. Presenter and Organizer for Indigenizing University Mathematics 2 international conference held at the University of Newcastle, Australia, and at First Nations University of Canada
- 2022 Doolittle, E. 'Tent Talk' on Indigenous Mathematics. Teaching and Learning Here and Now conference at the University of Regina
- 2022 Doolittle, E., & Native Stories. (2022, April 3). Native Stories: Indigenous Mathematicians: Edward Doolittle [Broadcast]. [nativestories.org/indigenous-mathematicians-edward-doolittle/](http://nativestories.org/indigenous-mathematicians-edward-doolittle/)
- 2021 Borwein, N., and Doolittle, E. Indigenous Mathematics. Keynote speakers at the Indigenising University Mathematics 2021 conference, University of Newcastle, Australia
- 2020 Doolittle, E. Online presentation on Indigenous mathematics for Teachers for the Federation of Sovereign Indigenous Nations (FSIN), Saskatchewan
- 2020 Doolittle, E. Online presentation for Langara College on Indigenizing math education at the post-secondary level
- 2019 Doolittle, E., & Russell, G. Mathematics as a Tool for Colonization (with Gale Russell), keynote presentation at Provoking Curriculum, a conference at the Faculty of Education, University of Regina
- 2019 Doolittle, E., & Nolan, K. Initiating and Nurturing Collaborations Between Mathematicians and Mathematics Educators, panel presentation at the Canadian Mathematics Education Study Group annual meeting
- 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](http://www.birs.ca/events/2019/2-day-workshops/19w2231/videos/watch/201906220942-Doolittle.html)
- 2018 Doolittle, E. Off the Grid, keynote presentation at Living Mathematics in Our Communities, the 8th Aboriginal Mathematics Symposium at the First Nations Longhouse, University of British Columbia
- 2018 Bazzul, J., Doolittle, E., Omeasoo, D., & Russell, G. Exploring Indigenous Spiritualities In-Relation: How Might Science and Math Education Become Different? Panel at the Canadian Society for the Study of Education conference
- 2018 Doolittle, E. What is Indigenous Mathematics? Weweni Lecture, 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)
- 2017 Doolittle, E. Harmonics, Nodal Lines, and Acoustic Levitation, keynote presentation at the Treaty 4 Math Fair in Fort Qu'appelle
- 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. The Development of a Plains Cree Pangrammatic Autogram at STEMfest, an international conference, in Saskatoon
- 2015 Doolittle, E. Indigenous Students of Mathematics, invited talk at the National Meeting of Canadian Math Department Chairs
- 2014 Doolittle, E. Cree Syllabic Crosswords, FNUiv Endangered Alphabets conference
- 2014 Doolittle, E. Indigenous Math Education, University of Regina/High School Transitions Committee Joint Professional Development conference
- 2014 Doolittle, E. Native American Mathematics, Richard and Louise 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 keynote address at the Ontario Institute for Studies in Education conference N'gwii Kendaasmin (We'll Learn Together): Drawing on Indigenous Knowledges to Transform Teaching and Learning in Mathematics and Science
- 2014 Doolittle, E. Indigenous Mathematics, Invited talk for Indigenous Math and Science conference at the University of Manitoba
- 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 for the 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 at the 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. to the Editing Aboriginal Texts conference at the University of Toronto
- 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

- 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	<b>Sessional Lecturer</b> , 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

## Leadership and Involvement

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2025	<b>Chair</b> , Expert Committee, Canada Foundation for Innovation <a href="http://www.innovation.ca">www.innovation.ca</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>
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>
2015–on	<b>Member</b> , Pension and Benefits Committee, First Nations University of Canada <a href="http://www.fnuniv.ca">www.fnuniv.ca</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>
2018–2022	<b>Mentor</b> , Verna J. Kirkness Foundation program <a href="http://www.vernajkirkness.org/">www.vernajkirkness.org/</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
2015–2017	<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>
2012	<b>Member</b> , Multidisciplinary Assessment Committee, Canada Foundation for Innovation <a href="http://www.innovation.ca">www.innovation.ca</a>
2012	<b>Member</b> , SSHRC Insight Grant Aboriginal Research Adjudication Committee <a href="http://sshr-crrsh.gc.ca">sshr-crrsh.gc.ca</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>
2007–2008	<b>Member</b> , Canadian Math Olympiad committee <a href="http://cms.math.ca/competitions/cmo/">cms.math.ca/competitions/cmo/</a>
2007	<b>Mentor</b> , Canada's International Math Olympiad team <a href="http://cms.math.ca/competitions/imo/">cms.math.ca/competitions/imo/</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>
1991–1992	<b>Member</b> , Presidential Advisory Committee on Race Relations and Anti-Racism Initiatives, University of Toronto <a href="http://www.utoronto.ca">www.utoronto.ca</a>