Edward Jon Doolittle

Curriculum Vitæ Summary

ORCID: 0009-0000-2155-8749 Associate Professor of Mathematics Email: edoolittle@firstnationsuniversity.ca Departament of Indigenous Knowledges and Science

Website: www.fnuniv.ca/academic/faculty/dr-edward-doolittle First Nations University of Canada

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

Current Professional Appointments

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

Previous Professional Appointments

2011-2014	Associate Professor of Mathematics and Department Head, First Nations University of Canada, www.fnuniv.ca
2009-2011	Associate Professor of Mathematics, First Nations University of Canada, www.fnuniv.ca
2008-2009	Assistant Professor of Mathematics, First Nations University of Canada, www.fnuniv.ca
2005-2008	Assistant Professor of Mathematics, University of Regina, www.uregina.ca
2002-2005	Assistant Professor of Mathematics and Department Head, First Nations University of Canada, www.fnuniv.ca

2001-2002 Assistant Professor of Mathematics, Saskatchewan Indian Federated College

Leadership and Involvement

2022-on	Board Member , Board of Equity, Diversity and Inclusion, Fields Institute for Research in Mathematical Sciences, www.fields.utoronto.ca
2021-on	Committee Member , Indigenous Engagement Committee, Pacific Institute for the Mathematical Sciences, www.pims.math.ca/people/committees/indigenous-engagement-committee
2020-on	Board Member , Board of Equity, Diversity, and Inclusion, Banff International Research Station, www.birs.ca/about/governance/scientific-management/Equity-Diversity-Inclusion-Board/current-members-EDIB
2020-2023	Committee Member, Mathematics and Reconciliation Committee, Canadian Mathematical Society, cms.math.ca

Chair, Mathematics and Reconciliation Committee, Canadian Mathematical Society, cms.math.ca

2019-on **Judge**, National Judging Team, Youth Science Canada, youthscience.ca

2018-on Trustee, Trust Fund Committee, University of Regina Faculty Association, www.urfa.ca

Education

2023-on

1992-1997	PhD in Mathematics , University of Toronto, www.utoronto.ca Thesis: A Parametrix for Stable Step Two Hypoelliptic Partial Differential Operators Advisor: Dr. Peter Greiner
1990-1992	MSc in Mathematics, University of Toronto, www.utoronto.ca
1985-1990	BSc in Mathematics, University of Toronto, www.utoronto.ca

Indigenous Identity

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

Fellowships and Awards

- 2024 **Fellow** of the Canadian Mathematical Society cms.math.ca/awards/fellows-of-the-cms/
- 2023 Adrien Pouliot Award, Canadian Mathematical Society cms.math.ca/awards/adrien-pouliot-award/
- 1992 Governor General's Gold Medal www.gg.ca/en/honours/recipients/116-5733
- 1987 **Honorable Mention**, William Lowell Putnam Mathematical Competition kskedlaya.org/putnam-archive/putnam1987results.html

Grants

2025	The Math Bundle . Banff International Research Station workshop 25w5472. <u>Doolittle, E</u> (PI), Glanfield, F, McKenna, B 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/recipients-recipiendaires/2023/pg-sp-eng.aspx
2024-2026	The Mathematics of Indigenous Games . First Nations University Board of Governors Grant. <u>Doolittle, E</u> (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/recipients-recipiendaires/2021/ig-ss-eng.aspx
2022-2027	Banff International Research Station. NSERC Discovery Institutes Support Grants. Pramanik, M (PI), Behjat, L, <u>Doolittle, E</u> , 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 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
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
2008	MATH 104/105 Calculus IA/Calculus IB Technology Enhanced Learning grant, Ministry of Advanced Education, Saskatchewan. Herman, Allen (PI) & Doolittle, E. (\$30,000)
1991-1995	NSERC Postgraduate Scholarship (\$56,000 over 4 years) www.nserc-crsng.gc.ca/ase-oro/index_eng.asp?new

Supervision

2024-on	Layne Burns, MSc in Mathematics, University of Regina (Co-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)
2022	Myron Medina, PhD in Mathematics Education, University of British Columbia (External Examiner) open.library.ubc.ca/media/download/pdf/24/1.0421274/4
2020-on	Tannen Acoose, PhD in Mathematics, University of Regina (Committee Member)
2018	Vanessa Braun, MA in Mathematics Education, University of Regina (External Examiner) ourspace.uregina.ca/server/api/core/bitstreams/17ba3eee-6a3b-40aa-add6-4fe95b865431/content
2017-2020	Shana Graham, PhD in Mathematics Education, University of Regina (Committee Member) ourspace.uregina.ca/server/api/core/bitstreams/8facba27-f8f1-4d29-b47b-e0d2e7634000/content

2003-2005 Meseret Bowden, MSc in Mathematics, University of Regina (Supervisor)

Papers in Refereed Journals

- future Lemon, M, <u>Doolittle, E</u>, Glanfield, F, Nicol, C, Thom, J. S. (2025). Time, place, and learning STEM as place. Journal of Curriculum Studies. Under review.
- Nicol, C., Thom, J. S., <u>Doolittle, E</u>, 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
- Adusei, K. K., Ng, K. T. W., Karimi, N., Mahmud, T. S., & <u>Doolittle, E</u> (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
- 2020 Leung, F.-S., Radzimski, V., & <u>Doolittle, E</u> (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
- 2017 Miller, A. M., & <u>Doolittle, E</u> (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
- 2010 Kajander, A., Mason, R., Taylor, P., <u>Doolittle, E</u>, 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
- 2007 <u>Doolittle, E,</u> & 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
- 2006 Berg, L. C., Longman, S., Hepting, D., & <u>Doolittle, E</u> (2006). Respectful actions in research: Aboriginal adolescents speaking their future. DELTA KAPPA GAMMA BULLETIN, 72(3), 23–29.
- 2000 Ferrando, S. E., <u>Doolittle, E</u>, 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

Book Chapters

- future Doolittle, E, Graham, S., & Hughes, A. (2025). Division with remainder: Indigenous perspectives.
- future <u>Doolittle, E,</u> & 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 <u>Doolittle, E</u> (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
- 2018 <u>Doolittle, E</u> (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

Articles in Periodicals

- 2021 <u>Doolittle, E</u> (2021, December). Explorations in Indigenous Mathematics: Drum Lacing. Crux Mathematicorum, 47(10), 481–486. cms.math.ca/publications/crux/issue/?volume=47&issue=10
- 2021 <u>Doolittle, E</u> (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
- 2020 <u>Doolittle, E</u> (2020, March). Mathematics and Reconciliation. CMS Notes, 52(2), 2--5. notes.math.ca/en/article/mathematics-and-reconciliation/
- Barr, D., Desaulniers, S., <u>Doolittle, E,</u> & 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

Conference Proceedings

- future <u>Doolittle, E</u> (2024). "Mathematics as a Spiritual Being". Invited talk in the Proceedings of the Fifteenth International Conference on Mathematics Education (ICME-15)
- Staats, S., Ugboajah, I., Chronaki, A., <u>Doolittle, E, & Sircar, S. (2021)</u>. "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
- 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.cmesq.org/wp-content/uploads/2015/01/CMESG2010.pdf
- 2006 <u>Doolittle, E</u> (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

Peer Review and Editorial Work

2025	Chair, Expert Committee, Canada Foundation for Innovation (CFI) www.innovation.ca
2024	Referee for the International Journal of Science and Mathematics Education
2022	Peer Review Member , First Nations Biobanking and Genomic Research committee, Canadian Institutes of Health Research (CIHR) www.researchnet-recherchenet.ca/rnr16/vwOpprtntyDtls.do?prog=3635
2020	Referee for the <i>Engaged Scholar</i> 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, in education journal journals.uregina.ca/ineducation
2012	Member , Multidisciplinary Assessment Committee, Canada Foundation for Innovation (CFI) www.innovation.ca
2012	Member , Insight Grant Aboriginal Research Adjudication Committee, Social Sciences and Humanities Research Council (SSHRC) sshrc-crsh.gc.ca
2009	Referee for the <i>Canadian Journal of Science, Mathematics and Technology Education</i> special issue on Indigenous Science through Place
2005-2009	Reviewer for Pearson Education's <i>Math Makes Sense</i> 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

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

Problem Solutions

- 2006 <u>Doolittle, E</u> (2006a). Solution to Problem 3026. Crux Mathematicorum, 32(3), 184–185. <u>Doolittle, E</u> (2006b). Solution to Problem 3028. Crux Mathematicorum, 32(3), 186–187. <u>Doolittle, E</u> (2006c). Solution to Problem 3029. Crux Mathematicorum, 32(3), 187–188. <u>cms.math.ca/publications/crux/issue/?volume=32&issue=3</u>
- 2006 <u>Doolittle, E</u> (2006d). Solution to Problem 3080. Crux Mathematicorum, 32(7), 473–475. cms.math.ca/publications/crux/issue/?volume=32&issue=7

- 1988 <u>Doolittle, E</u> (1988a). Solution to Problem 1985.305.8. Crux Mathematicorum, 14(2), 42–43. <u>Doolittle, E</u> (1988b). Solution to Problem 1985.305.10. Crux Mathematicorum, 14(2), 43–44. <u>cms.math.ca/publications/crux/issue/?volume=14&issue=2</u>
- 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.
- 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

Open Software

2025 **Curriculum Vitae**, adaptation of a GitHub template for developing a readable curriculum vitae in LaTeX. O edoolittle/cv.

Open Educational Resources

2025 **Calculus I**, resources including Beamer slides, problem sets, and solutions, for use in conjunction with Stewart Calculus. acoustic education conjunction with Stewart Calculus.

Selected Presentations, Workshops, and Other Media

cms.math.ca/publications/crux/issue/?volume=14&issue=3

- 2025 <u>Doolittle, E.</u> Division with Remainder: Indigenous Perspectives. Alberta Mathematics Dialogue 2025, University of Calgary. tinyurl.com/division-with-remainder-pptx
- 2025 <u>Doolittle, E.</u> 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
- 2025 <u>Doolittle, E.</u> Mathematics as Story. Storytelling through Art, Language, and Action. University at Buffalo (State University of New York)
- 2024 <u>Doolittle, E.</u> String Figures and Knots. Aboriginal and Torres Strait Islander Mathematics Alliance STEM Camp, Birrigai Outdoor School, Australian Capital Territory.
- 2024 <u>Doolittle, E.</u> Mathematics as a Spiritual Being. Invited talk at the Department of Mathematics, University of Saskatchewan usask.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=001c1142-f3a6-476b-bed9-b13c0037c04f
- 2024 <u>Doolittle, E.</u> Presenter and Organizer for Indigenising University Mathematics 3 international conference held at La Trobe University, Melbourne, Australia
- 2023 <u>Doolittle, E.</u> 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/
- 2023 <u>Doolittle, E,</u> & Czuy, K. (2023, June 3). Mathematics is Creation, Being, & Medicine (No. 15) [Broadcast]. open.spotify.com/episode/21oDjAQvZIOVWIIRh3CaKS
- 2023 Doolittle, E. Indigenizing University Mathematics. Invited plenary speaker at Alberta Mathematics Dialogue.
- 2022 <u>Doolittle, E.</u> Indigenous Maths, Global Math, and Indigenizing Mathematics. The Centre for Indigenous Knowledges and Languages, and the Department of Mathematics and Statistics, York University. www.youtube.com/watch?v=ptk_Ga43Wg
- 2022 <u>Doolittle, E.</u> 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 <u>Doolittle, E.</u> 'Tent Talk' on Indigenous Mathematics. Teaching and Learning Here and Now conference at the University of Regina

- 2022 <u>Doolittle, E,</u> & Native Stories. (2022, April 3). Native Stories: Indigenous Mathematicians: Edward Doolittle [Broadcast]. nativestories.org/indigenous-mathematicians-edward-doolittle/
- 2021 Borwein, N., and <u>Doolittle, E.</u> Indigenous Mathematics. Keynote speakers at the Indigenising University Mathematics 2021 conference, University of Newcastle, Australia carmamaths.org/meetings/ium/video/Theme 4 Edward and Naomi.mp4
- 2020 <u>Doolittle, E.</u> 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 <u>Doolittle, E, & Russell, G. Mathematics as a Tool for Colonization, keynote presentation at Provoking Curriculum, Faculty of Education, University of Regina</u>
- 2019 <u>Doolittle, E,</u> & Nolan, K. Initiating and Nurturing Collaborations Between Mathematicians and Mathematics Educators, panel presentation at the Canadian Mathematics Education Study Group annual meeting
- 2019 <u>Doolittle, E.</u> Word Puzzles in Indigenous Languages, presentation at the Canadian Mathematical Society summer meeting
- 2019 <u>Doolittle, E.</u> 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., <u>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</u>
- 2018 <u>Doolittle, E.</u> 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., <u>Doolittle, E</u>, 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 <u>Doolittle, E. What is Indigenous Mathematics? Weweni Lecture, University of Winnipeg.</u> www.uwinnipeg.ca/indigenous/weweni/weweni-2018/what-is-indigenous-mathematics.html
- 2017 <u>Doolittle, E.</u> Harmonics, Nodal Lines, and Acoustic Levitation, keynote presentation at the Treaty 4 Math Fair in Fort Qu'appelle
- 2017 <u>Doolittle, E.</u> Transformations, Symmetry, and the Starblanket, a talk for Grade 9 students at Campbell Collegiate high school in Regina
- 2016 <u>Doolittle, E.</u> 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 <u>Doolittle, E.</u> 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 <u>Doolittle, E.</u> The Development of a Plains Cree Pangrammatic Autogram at STEMfest, an international conference, in Saskatoon
- 2015 <u>Doolittle, E.</u> Indigenous Students of Mathematics, invited talk at the National Meeting of Canadian Math Department Chairs
- 2014 Doolittle, E. Cree Syllabic Crosswords, FNUniv Endangered Alphabets conference
- 2014 <u>Doolittle, E.</u> Indigenous Math Education, University of Regina/High School Transitions Committee Joint Professional Development conference
- 2014 <u>Doolittle, E.</u> Native American Mathematics, Richard and Louise Guy Lecture, University of Calgary mathtube.org/lecture/video/native-american-mathematics
- 2014 <u>Doolittle, E.</u> 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 <u>Doolittle, E.</u> Indigenous Mathematics, Invited talk for Indigenous Math and Science conference at the University of Manitoba

- 2013 <u>Doolittle, E.</u> Mathematics of Planet Earth: Graph Theory of the Food Chain for the Science Camp for Aboriginal Youth, First Nations University
- 2013 <u>Doolittle, E.</u> 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 <u>Doolittle, E.</u> 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
- 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 <u>Doolittle, E.</u> Aboriginal Perspectives in the Saskatchewan Mathematics Curriculum, Emerging Professionalism Conference, Faculty of Education, University of Regina
- 2009 <u>Doolittle, E.</u> Music and Signal Processing, presentation to Aboriginal K-12 students at the Kehewin Education Institute
- 2009 <u>Doolittle, E.</u> Teaching Aboriginal Perspectives in High School Mathematics at the Sun Country School District Professional Development Conference
- 2005 <u>Doolittle, E. Building Community through Science Curriculum Actualization, Awasis Conference (organized by the Saskatchewan Teachers' Federation)</u>
- 2002 <u>Doolittle, E.</u> Knots in Aboriginal Mathematics Education, Guest lecture for the Aboriginal Teacher Education Program, Queen's University
- 1998 <u>Doolittle, E.</u> Issues in the Mathematics Education of Aboriginal Students, Engineering Explorations Concordia University
- 1998 <u>Doolittle, E. Seeing Sounds, Blueprint for the Future, National Aboriginal Achievement Foundation</u>
- 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 <u>Doolittle, E.</u> 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

Octobio	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	Sessional Lecturer , EDPJ/EDJI 1100 (Mathematics Education for Primary/Junior/Intermediate) for the Waaban Indigenous Education Program at York University
2013-2014	Professor , AMTH 001/091/092 (Adult Mathematics) for community-based access programs in Onion Lake and Piapot First Nations, First Nations University
2012	Professor , MATH 101 for the community-based Aboriginal Teacher Education Program (Fort Qu'appelle), First Nations University
2018	Professor , EMTH 215 (Elementary Mathematics Education), Department of Indigenous Education, First Nations University
2001	Instructor, Leadership and Management, Grand River Polytechnic, Six Nations
2000	Lecturer, Native Studies, Faculty of Environmental Studies, York University
1999-2001	Lecturer, ABS201Y (Aboriginal Studies), Faculty of Arts and Science, University of Toronto
1998-1999	Instructor, Elementary Mathematics Education, Aboriginal Teacher Education Program, Faculty of

1997-1998 Lecturer, MAT 188F/196F (Linear Algebra/Calculus), Faculty of Engineering, University of Toronto

Instructor, Business Math, First Nation Management Training and Confederation College, Sioux Lookout

1999

Education, Queen's University

Lecturer, MAT135Y (Calculus I), Faculty of Arts and Science, University of Toronto
 Lecturer, MAT186F (Calculus IB), Faculty of Engineering, University of Toronto
 Academic Counselor, First Nations House, University of Toronto
 Teaching Assistant, Department of Mathematics, University of Toronto

Selected Community Service

2021-on	Member , Canada Jay Mathematical Competition committee, Canadian Mathematical Society cms.math.ca/competitions/cjmc/
2019-on	Member , Bargaining Team, First Nations University of Canada Academic Bargaining Unit, University of Regina Faculty Association www.urfa.ca
2015-on	Member, Pension and Benefits Committee, First Nations University of Canada www.fnuniv.ca
2018	Judge, Yakutia International Science Fair in Yakutsk, Russia ysf.lensky-kray.ru/en/
2018-2022	Mentor, Verna J. Kirkness Foundation program www.vernajkirkness.org
2017-on	Judge, and Chair of a Judging Group, Canada Wide Science Fair cwsf-espc.ca
2017	Judge, File Hills Qu'appelle Tribal Council Science Fair
2017	Judge, Treaty 4 Math Fair
2015-2017	Secretary/Treasurer, Native Heritage Foundation of Canada
2013-2014	Chair , First Nations Environmental Contaminants Program (FNECP) Selection Committee www.sac-isc.gc.ca/eng/1583779185601/1583779243216
2010	Tax Policy Consultant, Chiefs of Ontario chiefs-of-ontario.org
2010	Member, Academic Reform Task Force, First Nations University of Canada www.fnuniv.ca
2010	Webmaster, Fund First Nations University Now! blog fnuniv.wordpress.com
2007-2008	Member, Canadian Math Olympiad committee cms.math.ca/competitions/cmo/
2007	Mentor, Canada's International Math Olympiad team cms.math.ca/competitions/imo/
2003-2005	Member, President's International Alumni Council, University of Toronto www.utoronto.ca
1999-2002	Member, National Aboriginal Achievement Foundation Postsecondary Awards Jury
1996-1997	Graduate Student Representative , Aboriginal Advisory Council, University of Toronto www.utoronto.ca
1991-1992	Member , Presidential Advisory Committee on Race Relations and Anti-Racism Initiatives, University of Toronto www.utoronto.ca