# **Edward Jon Doolittle**

Curriculum Vitæ Summary

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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, S4S 7K2, 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
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
2001-2002	Assistant Professor of Mathematics, Saskatchewan Indian Federated College

### Leadership and Involvement

2025-on	<b>Board Member</b> , Board of Directors, Pacific Institute for the Mathematical Sciences www.pims.math.ca/people/board
2023-on	<b>Chair</b> , Mathematics and Reconciliation Committee, Canadian Mathematical Society cms.math.ca/about-the-cms/governance/committees/#rmc
2022-on	<b>Committee Member</b> , Equity, Diversity and Inclusion Advisory Committee, Fields Institute for Research in Mathematical Sciences www.fields.utoronto.ca
2021-on	<b>Committee Member</b> , Indigenous Engagement Committee, Pacific Institute for the Mathematical Sciences www.pims.math.ca/people/committees/indigenous-engagement-committee
2020-on	<b>Board Member</b> , Equity, Diversity and Inclusion Advisory Board, Banff International Research Station www.birs.ca/about/governance/scientific-management/Equity-Diversity-Inclusion-Board/current-members-EDIB
2020-2023	<b>Committee Member</b> , Mathematics and Reconciliation Committee, Canadian Mathematical Society cms.math.ca/about-the-cms/governance/committees/#rmc
2019-on	Judge, National Judging Team, Youth Science Canada youthscience.ca

#### Education

2018-on

1992-1997	PhD in Mathematics, University of Toronto www.utoronto.ca
	<b>Thesis:</b> A Parametrix for Stable Step Two Hypoelliptic Partial Differential Operators <b>Advisor:</b> Peter Greiner
	utoronto.scholaris.ca/server/api/core/bitstreams/a6c7bee0-0bce-49dd-8044-e0695623a0dc/content
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.

Trustee, Trust Fund Committee, University of Regina Faculty Association

www.urfa.ca/committees/trust-fund

### Fellowships and Awards

- 2024 **Fellow** of the Canadian Mathematical Society 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/
- 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

Herman, Allen (PI) & <u>Doolittle, E</u>. (**\$40,000**)

1991–1995 **NSERC Postgraduate Scholarship** (**\$56,000 over 4 years**)

www.nserc-crsng.gc.ca/ase-oro/index\_eng.asp?new

#### Grants

2026	<b>Mathematics Bundle</b> . Banff International Research Station (BIRS) workshop 26w5629. Glanfield, F (PI), Doolittle, E, McKenna, B www.birs.ca/event/26w5629
2025-2027	Word Puzzles in Indigenous Languages. Humanities Research Institute Fellowship, University of Regina. <u>Doolittle, E</u> (PI). (\$5,000 over 2 years) www.humanitiesresearch.org/profile-dr-edward-doolittle/
2025	<b>The Math Bundle</b> . Banff International Research Station (BIRS) workshop 25w5472. <u>Doolittle, E</u> (PI), Glanfield, F, McKenna, B www.birs.ca/events/2025/5-day-workshops/25w5472
2024-2030	<b>Critical Approaches to Indigenous Relationality</b> . Social Sciences and Humanities Research Council (SSHRC) Partnership Grant. www.prairierelationality.ca/cair-meet-our-team-co-applicants  Jobin, S (PI), et. al, <u>Doolittle, E</u> , et. al ( <b>\$2.5 million over 6 years</b> )
2024-2026	<b>The Mathematics of Indigenous Games</b> . First Nations University Board of Governors Research Award. <u>Doolittle, E</u> (PI), Fallat, S. ( <b>\$5000 over 2 years</b> )
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-recipiendaires/2021/ig-ss-eng.aspx Nicol, C (PI), Doolittle, E, Glanfield, F, Thom, J (\$360,000 over 5 years)
2022-2027	<b>Banff International Research Station</b> . Natural Science and Engineering Research Council (NSERC) Discovery Institutes Support Grants. 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. ( <b>\$5 million over 5 years</b> )
2013	Understanding Relationships between Aboriginal Knowledge Systems, Wisdom Traditions, and Mathematics: Research Possibilities. Banff International Research Station (BIRS) workshop 13w5120. <a href="Doolittle">Doolittle</a> , E; Glanfield, F 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)  www.outil.ost.uqam.ca/crsh/Detail.aspx?Cle=78132&Langue=2
2008	MATH 104/105 Calculus IA/Calculus IB

### Supervision

2024-on	Layne Burns, MSc in Mathematics, University of Regina (Co-supervisor)
2024-on	Whitney Ogle, MA in Indigenous Education, University of Regina (Committee Member)
2023-2024	Layne Burns, Natural Science and Engineering Research Council (NSERC) Undergraduate Student Research Award (USRA), First Nations University of Canada ( <b>Supervisor</b> )
2023-on	John Porrit, PhD 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 ( <b>Co-supervisor</b> )

Technology Enhanced Learning grant, Ministry of Advanced Education, Government of Saskatchewan.

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)

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

2012-2017 Tannen Acoose, MSc in Mathematics, University of Regina (Co-supervisor) ourspace.uregina.ca/server/api/core/bitstreams/8fe04ddf-4683-467a-837c-220914dcacc0/content

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

#### Papers in Refereed Journals

- future Lemon, M, Thom, JS, <u>Doolittle, E</u>, Glanfield, F, Nicol, C. (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
- 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., Boland, T., Jarvis, D., & Maciejewski, W. (2010). Multiple Visions of Teachers' understandings of Mathematics.</u> 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, & Hughes, A. (2025)</u>. Perhaps we didn't need a bridge: In dialogue with Indigenous mathematics. In <u>Decolonizing Western-Indigenous Dialogues</u>: 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, & Jungic, V. (2019, April)</u>. 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.cmesg.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-on	<b>Guest Editor</b> , <i>Education Sciences</i> special issue Indigenous Pedagogies and Perspectives in STEM and Mathematics Education: Learning that Supports the Well-Being of Self, Family, Community, Land, and Ancestors
2024	Referee for the International Journal of Science and Mathematics Education
2022	<b>Peer Review Member</b> , First Nations Biobanking and Genomic Research committee, Canadian Institutes of Health Research (CIHR) www.researchnet-recherchenet.ca/rnr16/wwOpprtntyDtls.do?prog=3635
2020	<b>Referee</b> for the <i>Engaged Scholar</i> journal: Community-Based Research, Teaching and Learning special issue on Trans-systemic and Indigenous Knowledges
2018	Referee for the Minnesota Journal of Undergraduate Mathematics pubs.lib.umn.edu/index.php/mjum/
2016-2017	<b>Referee</b> 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	<b>Member</b> , Multidisciplinary Assessment Committee, Canada Foundation for Innovation (CFI) www.innovation.ca
2012	<b>Member</b> , Insight Grant Aboriginal Research Adjudication Committee, Social Sciences and Humanities Research Council (SSHRC) sshrc-crsh.gc.ca
2009	<b>Referee</b> for the <i>Canadian Journal of Science</i> , <i>Mathematics and Technology Education</i> special issue on Indigenous Science through Place
2005-2009	<b>Reviewer</b> 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
- 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
- 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
- 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. **Q** edoolittle/cv.

### **Open Educational Resources**

2025 **Calculus I**, resources including Beamer slides, problem sets, and solutions, for use in conjunction with Stewart Calculus. **Q** edoolittle/calculus-1.

### Selected Presentations, Workshops, and Other Media

- 2025 <u>Doolittle, E.</u> Indigenous Students and Mathematics Competitions, Math Unity: Enhancing Diversity in Mathematics Through Outreach, 2025 Canadian Mathematical Society Summer Meeting
- 2025 <u>Doolittle, E.</u> Indigenous Games in Statistics Education and Research, Indigenizing the Statistics Curriculum panel, Statistical Society of Canada conference tinyurl.com/indigenous-games-stats-ed-pptx
- 2025 Keshen, J, Ottmann, J, Yost, C, <u>Doolittle, E</u>. ReconciliAction panel, National Building Reconciliation Forum 2025, First Nations University of Canada and the University of Regina
- 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. State University of New York at Buffalo
- 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. Presenter and Organizer for Indigenising University Mathematics 3 international conference held at La Trobe University, Melbourne, Australia</u>
- 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, & Czuy, K. (2023, June 3).</u> 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, & Native Stories.</u> (2022, April 3). Native Stories: Indigenous Mathematicians: Edward Doolittle [Broadcast] nativestories.org/indigenous-mathematicians-edward-doolittle/
- 2021 Doolittle, E. Indigenizing Mathematics, University of Toronto Mathematics Department Equity Forum
- 2021 Leung, F-S, Radzimski, V, & <u>Doolittle, E.</u> Reimagining Authentic Mathematical Tasks Non-STEM Majors, Paper Panel Presentation A, Fields MathEd Forum: (Re)imagining the M in STEM
- 2021 Borwein, N., & <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,</u> & Russell, G. Mathematics as a Tool for Colonization, keynote presentation at Provoking Curriculum, Faculty of Education, University of Regina
- 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 www.uwinnipeg.ca/indigenous/weweni/weweni-2018/what-is-indigenous-mathematics.html</u>
- 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 CBC & <u>Doolittle, E.</u> "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
- 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. Native American Mathematics, Richard and Louise Guy Lecture, University of Calgary mathtube.org/lecture/video/native-american-mathematics</u>
- 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.</u> Building Community through Science Curriculum Actualization, Awasis Conference (organized by the Saskatchewan Teachers' Federation)
- 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 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 <u>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</u>
- 1995 Doolittle, E. Native Mathematics, Native Issues Seminar, First Nations House, 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	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	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	<b>Instructor</b> , Elementary Mathematics Education, Aboriginal Teacher Education Program, Faculty of Education, Queen's University
1999	Instructor, Business Math, First Nation Management Training and Confederation College, Sioux Lookout
1997-1998	Lecturer, MAT 188F/196F (Linear Algebra/Calculus), Faculty of Engineering, University of Toronto
1997	Lecturer, MAT135Y (Calculus I), Faculty of Arts and Science, University of Toronto
1991	
1996	Lecturer, MAT186F (Calculus IB), Faculty of Engineering, University of Toronto
1996	Lecturer, MAT186F (Calculus IB), Faculty of Engineering, University of Toronto  Academic Counselor, First Nations House, University of Toronto
1996	
1996 1992-1994 1986-1996	Academic Counselor, First Nations House, University of Toronto
1996 1992-1994 1986-1996	Academic Counselor, First Nations House, University of Toronto  Teaching Assistant, Department of Mathematics, University of Toronto  Community Service
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2007-2008 Member, Canadian Math Olympiad committee cms.math.ca/competitions/cmo/

1999-2002 Member, National Aboriginal Achievement Foundation Postsecondary Awards Jury

2003-2005 Member, President's International Alumni Council, University of Toronto www.utoronto.ca

Mentor, Canada's International Math Olympiad team www.birs.ca/events/2007/summer-schools/07ss005

2007

