Edward Jon Doolittle

Curriculum Vitæ Summary

ORCID: 0009-0000-2155-8749

Associate Professor of Mathematics
Email: edoolittle@firstnationsuniversity.ca

Departament of Indigenous Knowledge and Science
Website: www.fnuniv.ca/academic/faculty/dr-edward-doolittle

First Nations University of Canada

Latest CV: https://github.com/adaolittle/cy/raw/ndf/cy.pdf 1 First Nations Way Pogina Saskatshawan S45 7K2 Canada

Latest CV: https://github.com/edoolittle/cv/raw/pdf/cv.pdf 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 |
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| 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 |
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| 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 | Board Member , Board of Directors, Pacific Institute for the Mathematical Sciences (PIMS) www.pims.math.ca/people/board |
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| 2023-on | Chair , Mathematics and Reconciliation Committee, Canadian Mathematical Society (CMS) 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/ |
| 2022-on | Committee Member , Equity, Diversity and Inclusion Advisory Committee, Fields Institute for Research in Mathematical Sciences (Fields) 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 |
| 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 |
| 2019-on | Judge, National Judging Team, Youth Science Canada (YSC) youthscience.ca |
| 2018-on | Trustee , Trust Fund Committee, University of Regina Faculty Association (URFA) www.urfa.ca/committees/trust-fund |

Education

| 1992-1997 | PhD in Mathematics, University of Toronto www.utoronto.ca |
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| | Thesis: A Parametrix for Stable Step Two Hypoelliptic Partial Differential Operators Advisor: 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.

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

Grants

- 2026 **Mathematics Bundle**. 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. Doolittle, E (PI). (**\$5,000 over 2 years**) www.humanitiesresearch.org/profile-dr-edward-doolittle/
- 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
- 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

 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 natawihowin 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 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-recipiendaires/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 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
- 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 Development of Online Calculus

Technology Enhanced Learning grant, Ministry of Advanced Education, Government of 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**)
- 2024-on Whitney Ogle, MA in Indigenous Education, University of Regina (Committee Member)

2023-2024 Layne Burns, Natural Sciences and Engineering Research Council (NSERC) Undergraduate Student Research Award (USRA), First Nations University of Canada (Supervisor) John Porrit, PhD in Mathematics Education, University of Regina (Co-supervisor) 2023-on Ehdaa Matia, PhD in Mathematics Education, University of Regina (Committee Member) 2023-on Shana Graham, Postdoctoral Fellowship, University of Regina (Co-supervisor) 2022-2023 Myron Medina, PhD in Mathematics Education, University of British Columbia (External Examiner) 2022 open.library.ubc.ca/media/download/pdf/24/1.0421274/4 Tannen Acoose, PhD in Mathematics, University of Regina (Committee Member) 2020-on Vanessa Braun, MA in Mathematics Education, University of Regina (External Examiner) 2018 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)

Papers in Refereed Journals

future Lemon, M., Thom, J. S., <u>Doolittle, E.</u>, Glanfield, F., & Nicol, C. (2025). Time, place, and learning STEM as place. Journal of Curriculum Studies. Under review.

ourspace.uregina.ca/server/api/core/bitstreams/8fe04ddf-4683-467a-837c-220914dcacc0/content

- 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.

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

- Nicol, C., Thom, J. S., <u>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</u>
- 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.,</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., & Glanfield, F. (2007)</u>. 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., Bernal, A. J., & Bernal, L. J. (2000)</u>. 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. Division with remainder: Indigenous perspectives. Under review.
- 2025 <u>Doolittle, E.,</u> & 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/
- 2018 <u>Doolittle, E.</u> (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.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)
- 2021 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 |
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| 2024-on | Guest Editor , <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 | 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 |
| 2018 | Referee for the Minnesota Journal of Undergraduate Mathematics pubs.lib.umn.edu/index.php/mjum/ |
| 2016-2017 | Referee for <i>Canadian Journal of Science</i> , <i>Mathematics and Technology Education</i> 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 *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

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. O 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> Rotations in Indigenous Mathematics and in Mathematics Education. Talk at The Math Bundle, Banff International Research Station (BIRS) workshop 25w5472
- 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. 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</u>
- 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. String Figures and Knots. Aboriginal and Torres Strait Islander Mathematics Alliance (ATSIMA) STEM Camp, Birrigai Outdoor School, Australian Capital Territory</u>
- 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> Bridging Indigenous Mathematics and Global Mathematics. Turtle Island Indigenous Science Conference 2022, University of Manitoba
- 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
- 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, Saskatchewan
- 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, Louise and Richard K. 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 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
- 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 | Professor MATILITO (Calculus I) reports and delite (aplica arms brown as) First National University of Canada |
|-----------|---|
| 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 |

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 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

Lecturer, MAT135Y (Calculus I), Faculty of Arts and Science, University of Toronto 1997 Lecturer, MAT186F (Calculus IB), Faculty of Engineering, University of Toronto 1996

1992-1994 Academic Counselor, First Nations House, University of Toronto

1986-1996 Teaching Assistant, Department of Mathematics, University of Toronto

Selected Community Service

2000

- 2023-2025 Member, Academic Performance Review Committee, First Nations University of Canada www.fnuniv.ca
- Member, Local Organizing Committee, 2024 Turtle Island Indigenous Science Conference, University of 2023-2024 Regina and First Nations University of Canada

event.fourwaves.com/2024tiisc/pages/8c2de33c-254b-4cc1-a379-dfc8e2621e19

- 2022-2024 Executive Member, Canadian Mathematics Education Study Group www.cmesg.org
- Member, Canada Jay Mathematical Competition committee, Canadian Mathematical Society 2021-on cms.math.ca/competitions/cjmc/
- 2020-2027 Member, Mathematics and Reconciliation Committee, Canadian Mathematical Society cms.math.ca/about-the-cms/governance/committees/#rmc
- 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 | Mentor, Canada's International Math Olympiad team www.birs.ca/events/2007/summer-schools/07ss005 |
| 2006-2008 | Member, Canadian Mathematical Olympiad committee cms.math.ca/competitions/cmo/ |
| 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 |