



**NAME** Dr. Matthew Morris

### COMPLETED ACADEMIC DEGREES

Degree Name	Subject Area	Where Completed	Date of Completion
PhD	Evolutionary Biology	University of Calgary	2017
MSc	Environmental Genomics	University of Calgary	2011
BSc (Honours Co-op)	Marine Biology	Dalhousie University	2009
BRE	General Studies	Alberta Bible College	2006

### ACADEMIC APPOINTMENT

Appointment Level	Institution	Dates (Yr to Yr)	Subject Area
Associate Professor (Tenured)	Ambrose University	2021 to 2024	Biology
Assistant Professor	Ambrose University	2016 to 2021	Biology
Sessional Instructor	Alberta Bible College	2012 and 2015	Science and faith
Sessional Instructor	University of Calgary	2015 to 2015	Fish biology
Course Assistant	University of Calgary	2014 to 2014	Molecular Ecology
Teaching Assistant	University of Calgary	2009 to 2012	Genetics
Teaching Assistant	Dalhousie University	2006 to 2006	Oceanography
Teaching Assistant	Alberta Bible College	2003 to 2003	Old Test. Lit.

### ADMINISTRATIVE APPOINTMENTS

Appointment Level	Institution	Dates (Yr to Yr)
Chair, Undergraduate Curriculum Committee	Ambrose University	2023 to 2023
Program Co-Chair	Ambrose University	2021 to 2022
Program Chair (interim)	Ambrose University	2018 to 2018
Chair, Animal Care Committee	Ambrose University	2016 to 2022

### TEACHING EXPERIENCE

Institution	Dates (Yr to Yr)	Courses Taught (Course # and Name)
Ambrose University	2017 to 2024	IND 287 (Science and Christian faith)
Ambrose University	2018 to 2024	BIO 301 (Principles of Evolution)
Ambrose University	2018 to 2024	BIO 301-T (Principles of Evolution Tutorial)
Ambrose University	2018 to 2024	ZOO 275 (Invertebrate Zoology)
Ambrose University	2019 to 2024	ECOL 319 (Terrestrial Communities and Ecosystems)

Ambrose University	2019 to 2024	ECOL 319-L (Terrestrial Communities and Ecosystems lab)
Ambrose University	2024 to 2024	BIO 497 Independent Research in Biology II
Ambrose University	2023 to 2023	BIO 495 Independent Research in Biology I
Ambrose University	2021 to 2023	BIO/SC 498 Biology Capstone Seminar
Ambrose University	2021 to 2021	BIO 493 Evolution of COI in fishes
Ambrose University	2020 to 2020	BIO 493 Constrains on COI evolution in fishes
Ambrose University	2020 to 2020	BIO 493 (Characterization of genetic and morphological variation in an invasive fish species in a Calgary community lake)
Ambrose University	2019 to 2019	BIO 493 (Genetic variation in AB freshwater fishes)
Ambrose University	2019 to 2019	BIO 493 (Optimizing RFLP-PCR for <i>TAS2R38</i> gene)
Ambrose University	2019 to 2019	BIO 493 (Optimizing PCR for the <i>SLC6A3</i> gene)
Ambrose University	2016 to 2023	BIO 211 (Principles of Genetics)
Ambrose University	2016 to 2023	BIO 211-L (Principles of Genetics labs)
Ambrose University	2018 to 2018	BIO 493 (Status of the Barn Swallow in Little Campbell Watershed)
Ambrose University	2018 to 2018	BIO 493 (Genetics and Food Security)
Ambrose University	2018 to 2018	BIO 493 (Mitochondrial physiology)
Ambrose University	2018 to 2019	BIO 131 (Introduction to the Cellular Basis of Life)
Ambrose University	2017 to 2017	BIO 493 (Genetics of a putatively invasive threespine stickleback population in Edmonton, AB)
Ambrose University	2016 to 2023	BIO 213 (Principles of Ecology)
Ambrose University	2016 to 2017	BIO 213-L (Principles of Ecology lab)
Ambrose University	2018 to 2020	ZOO 379 (Introduction to Marine Biology)
Alberta Bible College	2012 to 2015	G233 (Science and the Christian Faith)
University of Calgary	2015	FIF 601 (Identifying Alberta's Fish Species)
University of Calgary	2014	ECOL 529 (Molecular Ecology and Evolution tutorial)
University of Calgary	2009 – 2012	BIOL 311 (Principles of Genetics lab TA)
Dalhousie University	2006	BIOL 3003 (Dynamics of Biological Oceanography lab TA)
Alberta Bible College	2003	B111 (Old Testament Literature, TA)

## SCHOLARLY PARTICIPATION

### Books Authored or Edited

Dates (Yr to Yr)	Activity (Name of book, publisher etc)
2024	Morris M (2024) Wisconsin freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2024	Morris M (2024) Washington freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.

2024	Morris M (2024) Virginia freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2024	Morris M (2024) Vermont freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2024	Morris M (2024) Rhode Island freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2024	Morris M (2024) Oregon freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2024	Morris M (2024) New York freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2024	Morris M (2024) New Hampshire freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2024	Morris M (2024) Maryland freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2024	Morris M (2024) Maine freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2024	Morris M (2024) Indiana freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2024	Morris M (2024) Florida freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2024	Morris M (2024) Delaware freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2024	Morris M (2024) Connecticut freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2024	Morris M (2024) Colorado freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2024	Morris M (2024) Alaska freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2024	Morris M (2024) Alabama freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2024	Morris M (2024) Quebec fishes: a waterproof folding guide to native and introduced freshwater species. Waterford Press.
2024	Morris M, Rogers S (2024) Alberta fishes: a waterproof folding guide to native and introduced freshwater species. Revised. Waterford Press.
2024	Morris M, Somers C (2024) Saskatchewan fishes: a waterproof folding guide to native and introduced freshwater species. Revised. Waterford Press.
2024	Morris M (2024) Ontario fishes: a waterproof folding guide to native and introduced freshwater species. Revised. Waterford Press.
2024	Morris M (2024) British Columbia fishes: a waterproof folding guide to native and introduced freshwater species. Revised. Waterford Press.
2023	Chapter forward, in van Sloten J (2023) <i>God Speaks Science</i> . Moody Publishers: Chicago, IL
2023	Morris M (2023) Manitoba fishes: a waterproof folding guide to native and introduced freshwater species. Waterford Press.
2023	Morris M (2023) New Brunswick fishes: a waterproof folding guide to native and introduced freshwater species. Waterford Press.

2023	Morris M (2023) Nova Scotia fishes: a waterproof folding guide to native and introduced freshwater species. Waterford Press.
2023	Morris M (2023) Prince Edward Island fishes: a waterproof folding guide to native and introduced freshwater species. Waterford Press.
2023	Morris M (2023) Newfoundland and Labrador fishes: a waterproof folding guide to native and introduced freshwater species. Waterford Press.
2023	Morris M (2023) Fishes of the Canadian North: a waterproof folding guide to native and introduced freshwater species. Waterford Press.
2022	Morris M (2022) Idaho freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2022	Morris M (2022) Minnesota freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2022	Morris M (2022) Montana freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2022	Morris M (2022) North Carolina freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2022	Morris M (2022) South Carolina freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2022	Morris M (2022) Texas freshwater fishes: a waterproof folding guide to native and introduced species. Waterford Press.
2021	Morris M (2021) British Columbia fishes: a folding pocket guide to all known native and introduced freshwater species. Waterford Press.
2021	Morris M (2021) Ontario fishes: A folding pocket guide to most common native and introduced species. Waterford Press.
2021	Somers C, and Morris M (2021) Saskatchewan fishes: A folding pocket guide to all known native and introduced species. Waterford Press. 2 <sup>nd</sup> edition
2021	Rogers S, and Morris M (2021) Alberta fishes: A folding pocket guide to all known native and introduced species. Waterford Press. 3 <sup>rd</sup> edition.
2019	Rogers S, and Morris M (2019) Alberta fishes: A folding pocket guide to all known native and introduced species. Waterford Press. 2 <sup>nd</sup> edition.
2016	Somers C, and Morris M (2016) Saskatchewan fishes: A folding pocket guide to all known native and introduced species. Waterford Press.
2014	Morris M, and Rogers S (2014) The ecological genomics of phenotypic plasticity. In: Ecological genomics. Eds. C. Landry and N. Aubin-Horth. Advances in Experimental Medicine Volume 781. Springer. pp 73-105. 4 citations.
2014	Rogers S, and Morris M (2014) Alberta fishes: A folding pocket guide to all known native and introduced species. Waterford Press.

### Refereed Publications

Dates	Activity (Name of article and journal)
submitted	Morris MRJ, Derlukewich S, McFadden S (submitted) The occurrence of introduced rosy red minnows ( <i>Pimephales promelas</i> ) in Alberta, Canada. Canadian Field-Naturalist. 3253.
accepted, in press	Comia CF, Morris MRJ ( <i>in press</i> ) Beyond BOLD: using DNA barcoding to identify Prussian carp ( <i>Carassius gibelio</i> , Bloch, 1782) in southern Alberta,

	Canada. BiolInvasions Records. Accepted pending minor revisions. BIR-2023-056R1.
2022	Stovell B, Morris MRJ (2022) Taxonomic theology: an interdisciplinary approach to a biblical and biological theology of naming. <i>Perspectives on Science and Christian Faith</i> . 74: 194-211.
2021	Morris MRJ, Wuitchik S, Rosebush J, Rogers S (2021) Mitochondrial volume density and evidence for its role in adaptive divergence in response to thermal tolerance in threespine stickleback. <i>Journal of Comparative Physiology B</i> . 191: 657-668
2020	Morris MRJ (2020) Naming as a form of stewardship: A case study on fraudulent fishes sold in Calgary, Alberta, Canada. <i>Perspectives on Science and Christian Faith</i> . 72: 151-166.
2020	Stanford BCM, Clake DJ, Morris MRJ, Rogers SM (2020) The power and limitations of gene expression pathway analyses toward predicting population response to environmental stressors. <i>Evolutionary Applications</i> . doi.org/10.1111/eva.12935
2019	Aké UB, Heredia HC, Valdez AE, Loeza I, Salomón PO, Morris M, Valdez Moreno M (2019). High diversity of dried charales in food markets: a Mexican Barcode of Life network example in the formation of bachelor students. In: Scientific abstracts from the 8th International Barcode of Life Conference. <i>Genome</i> . 62: 350.
2019	Morris MRJ, Kaufman R, Rogers SM (2019) Heterozygosity and asymmetry: <i>Ectodysplasin</i> as a form of genetic stress in marine threespine stickleback. <i>Evolution</i> . 73: 378-389.
2018	Morris MRJ, Bowles E, Allen BA, Jamniczky HA, Rogers SM (2018) Contemporary ancestor? Adaptive divergence from standing genetic variation in Pacific marine threespine stickleback. <i>BMC Evolution</i> . 18: 113.
2018	Allen BE, Bowles E, Morris MRJ, Rogers SM (2018) Loss of SNP genetic diversity following population collapse in a recreational walleye ( <i>Sander vitreus</i> ) fishery. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> . 75: 1644-1651.
2017	Morris MRJ, Petrovitch E, Bowles E, Jamniczky HA, Rogers SM (2017) Exploring Jordan's Rule in Pacific three-spined stickleback <i>Gasterosteus aculeatus</i> . <i>Journal of Fish Biology</i> . 91: 645-663.
2017	Morris MRJ (2017) Contemporary ancestor? Variation in marine threespine stickleback ( <i>Gasterosteus aculeatus</i> ) and its implications for adaptive divergence. PhD Thesis, University of Calgary.
2015	Hodgson R, Waytuck T, Morris M, and Rogers S (2015) DNA barcoding in the classroom: Investigating fish labeling. <i>The Barcode Bulletin</i> .
2015	Morris M (2015) Review: "Process and providence: The evolution question at Princeton, 1845-1929" by Bradley J. Gundlach. <i>Reports of the National Center for Science Education</i> . 35(2): 12.1-12.3 (Invited review).
2014	Morris M (2014) Plasticity-mediated persistence in new and changing environments. <i>International Journal of Evolutionary Biology</i> . 2014: 416497. New Open Access Journal, Acceptance Rate = 9%, 2 citations.
2014	Morris M, Richard R, Leder EH, Barrett RDH, Aubin-Horth N, and Rogers S (2014) Gene expression plasticity evolves in response to colonization of

	freshwater lakes in threespine stickleback. <i>Molecular Ecology</i> . 23: 3226-3240. 2014 ISI Impact factor 6.5, 46 citations.
2014	Morris M (2014) We know in part: James McCosh on evolution and Christian faith. <i>Journal of the History of Biology</i> . 47(3): 363-410. 2014 ISI Impact factor 0.42.
2013	Morris M, and Rogers S (2013) Overcoming maladaptive plasticity through plastic compensation. <i>Current Zoology</i> . 59(4): 526-536. 2014 ISI Impact Factor 1.8, 12 citations.
2013	Morris M (2013) The complexity of a simple God: Aquinas' response to Richard Dawkins. <i>Axis Mundi</i> . 2012-2013: 17 pp.
2011	Morris MRJ (2011) The evolution of thermally-induced plasticity in the molecular phenotype of marine and freshwater threespine stickleback ( <i>Gasterosteus aculeatus</i> ). MSc Thesis, University of Calgary.
2011	Morris M, Fraser DJ, Eddington J, and Hutchings JA (2011) Hybridization effects on phenotypic plasticity: Experimental compensatory growth in farmed-wild Atlantic salmon. <i>Evolutionary Applications</i> . 4(3): 444-458. 2014 ISI Impact Factor 3.896, 16 citations.
2009	Morris MRJ (2009) Evidence for outbreeding depression based on contemporary growth in farmed/wild Atlantic salmon ( <i>Salmo salar</i> ) hybrids. Honours BSc Thesis, Dalhousie University.
2008	Morris M, Fraser DJ, Heggelin A, Whoriskey F, Carr JW, O'Neil S, and Hutchings JA (2008) Prevalence and recurrence of escaped farmed Atlantic salmon ( <i>Salmo salar</i> ) in eastern North American rivers. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> . 65: 2807-2826. 2014 ISI Impact Factor 2.287, 54 citations.

### Non-Refereed Publications

Dates	Activity (Name of article and journal)
2013	Morris M (Fall 2013) The Social Justice League. Bow Valley Life Newsletter. p. 29.
2013	Morris M (2013) Creation care. Bow Valley Life Newsletter.
2010	Morris M (Summer 2010) Alumni profile. Evangel Newsletter, Alberta Bible College. p. 8
2007	Morris M (2007) A-Salt! The effects of salt on life, climate, and industry: an elementary school curriculum. Aquatron, Dalhousie University, Halifax, NS. 69 pp.
2006	Morris M (2006) Opening address. A guide to energy efficiency for religious buildings in Nova Scotia. Climate Change Centre, Clean Nova Scotia. p. 3.

### Conference Presentations

Dates	Activity (Name of presentation and conference)
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2023	Stovell B, Morris M (2023) A longspur by any other name: the promises and pitfalls of renaming species. American Scientific Affiliation, Mississauga, July 31 2023.
2023	Morris M (2023) Seafood mislabeling in Calgary reveals the sale of species of conservation concern. Canadian Society of Zoologists. Saskatoon, May 16, 2023.
2022	Stovell B, <b>Morris M</b> (2022) Taxonomic theology: an interdisciplinary approach to a Biblical and biological theology of naming. American Scientific Affiliation, Point Loma Nazarene, July 2023.
2022	Morris M (2022) One Fish? Two Fish? Why Estimates of Alberta's Biodiversity Keep Changing. Ambrose Research Conference
2021	Morris M et al. (2021) Mitochondrial volume density and evidence for its role in adaptive divergence in response to thermal tolerance in threespine stickleback. Canadian Society of Zoologists Conference.
2021	Morris M (2021) Constraints in COI of Perciformes. Canadian Society of Ecology and Evolution.
2021	Morris M, Beth Stovell (2021) Taxonomic theology. Ambrose Research Conference, Calgary, AB
2020	Morris M (2020) "Man gave names to all the animals": The significance of names for Alberta's freshwater fishes. Ambrose Research Conference (recorded and archived)
2019	How the Irish elk got its antlers: phenotypic plasticity and objections to evolution, American Scientific Affiliation conference in Chicago
2019	Morris M (2019) A skewed perspective on asymmetry. Ambrose Research Conference, Calgary, AB.
2018	Morris M (2018) God blessed the fish: Calgary's fish food problem and its implications for flourishing fishes. Canadian Scientific and Christian Affiliation Conference, Langley, BC.
2017	Morris M (2017) Heterozygosity and asymmetry in threespine stickleback. Canadian Society of Ecology and Evolution. Victoria, BC.
2017	Morris M (2017) Under-appreciated variation in marine threespine stickleback has consequences for our understanding of adaptation (or: seven years of my life in 15 minutes). Ambrose Research Conference (ARC), Calgary AB.
2017	Gehlert S, Limacher K, BIO 211 Class, Morris M (2017) DNA barcoding reveals fish fraud in Calgary. Ambrose Research Conference (ARC), Calgary AB.
2016	Morris M (2016) Phenotypic and genetic variation in coastal Pacific threespine stickleback. Canadian Society of Ecology and Evolution. St. John's NL.
2015	Morris M, Petrovich E, Jamniczky H, and Rogers S (2015) Exploring Jordan's Rule in coastal threespine stickleback. Canadian Society of Zoologists. Calgary AB.
2015	Morris M, Rogers S, et al. (2015) Evolution of phenotypic plasticity in threespine stickleback. Killam Reception. Poster.
2011	Morris M, Leder E, Barrett R, Aubin-Horth N, and Rogers S (2011) Environmental genomics of phenotypic plasticity for temperature in threespine stickleback. American Fisheries Society, Seattle, WA. International conference.

2011	Morris M, Leder E, Barrett R, Aubin-Horth N, and Rogers S (2011) Environmental genomics of phenotypic plasticity for temperature in threespine stickleback. Canadian Society for Ecology and Evolution, Banff, AB. National conference. Poster.
2010	Morris M, Fraser DJ, Eddington J, and Hutching JA (2010) The effects of farmed-wild hybridization on compensatory growth in Atlantic salmon. Canadian Society for Ecology and Evolution, Quebec City, Quebec. National conference.
2009	Morris M, Fraser DJ, and Hutchings JA (2009) Evidence for outbreeding depression based on compensatory growth in farmed/wild Atlantic salmon ( <i>Salmo salar</i> ) hybrids. Atlantic Universities Biology Conference, Truro, NS. National conference.
2008	Morris M, Fraser DJ, Heggelin A, Whoriskey F, Carr JW, O'Neil S, and Hutchings JA (2008) Prevalence and recurrence of escaped farmed Atlantic salmon ( <i>Salmo salar</i> ) in eastern North American rivers. Canadian Committee on Freshwater Fisheries Research, Halifax, NS. National conference.

### Research Grants

Dates	Activity (Name of grant and research)
2023	PD grant, \$1000
2023	St. Patrick's Island Bioblitz, \$700
2023	Chapter leader travel grant, ASA, \$250 US
2023	Caregiver grant, CSZ, \$500
2021	PD grant, \$500
2019	PD grant, \$1000
2017	Internationalization at Home in Science Education, \$6500
2016 to 2018	PD Research Grant, \$2500
2015 to 2017	Izaak Walton Killam Pre-Doctoral Research Allowance, \$6000
2010	Northern Science Training Program Funding, \$2950
2010	Alberta Conservation Association Challenge Grants in Biodiversity, \$12 000
2007	Atlantic Salmon Federation Olin Fellowship, \$1000

### ACADEMIC AND PROFESSIONAL PRESENTATIONS

Dates	Name of Presentation to Name of Organization
2010 to 2024	<p><b>Public presentations (camps, churches, Ambrose events)</b></p> <ul style="list-style-type: none"> <li>• Good Seed Sunday sermon, Oak Park, April 16 2023</li> <li>• Q &amp; A on Canada's fisheries, ECOL 235, invited lecture</li> <li>• Canada's freshwater fishes, ECOL 235, invited lab</li> <li>• Science and Christian Faith, Ambrose Seminary lunch and learn, Winter 2022</li> </ul>

	<ul style="list-style-type: none"> <li>• Something fishy’s going on! Nature Calgary Lecture Series, Winter 2022</li> <li>• Prayer for biology students. Convocation chapel, Fall 2020.</li> <li>• Good Seed Sunday sermon, Oak Park/Rosscarrock Church of Christ. April 19 2020.</li> <li>• Response to Darrel Falk’s public lecture for faith, life and learning days. Feb 2020.</li> <li>• Supper with a Scientist, for seminary. Fall 2019.</li> <li>• To love God is to love creation. Ambrose Chapel. Sept 13 2018.</li> <li>• Loving nature in loving neighbour. Varsity Bible Church. Invited sermon. Aug 26 2018.</li> <li>• An introduction to creation care. Varsity Bible Church. Wednesday evening dinner and study. Aug 22 2018.</li> <li>• Three-part series on creation care. Clyde Christian Bible Church. July 2018. Family camp invited speaker.</li> <li>• Deeply rooted. Alberta Bible College graduation dinner. April 27 2018.</li> <li>• Loving nature is loving neighbour. Ambrose Chapel, January 2017.</li> <li>• Science and the Christian Faith, Clyde Christian Bible Church: Oct 25 2015</li> <li>• Science and the Christian Faith, Prairie Young People’s Association: Oct 17 2015</li> <li>• The two books: Bible and nature, Deeper Life Camp: August 27 2015</li> <li>• Naming the animals, Rosscarrock Church of Christ: April 12 2015</li> <li>• Discovering the Bible in a world of science, Rosscarrock Church of Christ: December 14 2014</li> <li>• Job and suffering, Deeper Life Camp: August 23 2014</li> <li>• Evolution and Christian faith, Deeper Life Camp: August 23 2014</li> <li>• Hope for Creation, Rosscarrock Church of Christ: April 6 2014</li> <li>• Evolution, Harvest Hills Alliance Church Young Adults: March 23 2014</li> <li>• Courage, Alberta Bible College: Jan 30 2014</li> <li>• Good Seed Sunday, Rosscarrock Church of Christ: April 21 2013</li> <li>• Creation care, Pine Lake Family Camp: May 2012</li> <li>• Good Seed Sunday, Bow Valley Christian Church: April 2012</li> <li>• On the single life, Rosscarrock Church of Christ: Jan 2012</li> <li>• Caring for creation, Fort Benton Christian Church: Aug 2011</li> <li>• A walk through the book of Job, Rosscarrock Church of Christ: March 2011</li> <li>• Blessed are the pure in heart, Rosscarrock Church of Christ: Summer 2010</li> <li>• Chaos and order in Genesis 1, Halifax Church of Christ Spring Conference: Spring 2010</li> </ul>
2010 to 2024	<p><b>Invited Lectures</b></p> <ul style="list-style-type: none"> <li>• Taxonomic theology, University of King’s College, Halifax: March 2023.</li> <li>• One fish, two fish, red fish...new fish? Nature Calgary: Dec 21 2022</li> <li>• Something fishy’s going on! Nature Calgary: March 16 2022.</li> </ul>

	<ul style="list-style-type: none"> <li>• Response to Todd Mitchell, plenary speaker at ARC: March 2021.</li> <li>• Beyond fish fraud. Deeper Life. Ambrose University: Oct 2020.</li> <li>• Guest lecture in Pentateuch class, on the nature of science. Fall 2019 and 2020</li> <li>• Guest lecture in Pentateuch class, on naming of the animals. Fall 2019 and 2020.</li> <li>• Does science say <i>anything</i> about God? PYP conference. Oct 2019.</li> <li>• Navigating the creation-evolution debate. Converge Teacher’s Convention. Foothills Alliance, October 2017.</li> <li>• Environmental degradation, Global Perspectives (G131), Alberta Bible College: April 2012, April 2013, March 2014, April 2015</li> <li>• The history of evolution, Evolutionary Biology (BIOL 401), University of Calgary: Jan 2013</li> <li>• Phenotypic plasticity, Evolutionary Biology (BIOL 401), University of Calgary: March 2012</li> <li>• Phenotypic plasticity of fishes, Ecology of Fishes (ECOL 527), University of Calgary: Jan 2012</li> <li>• Religious reactions to evolution, Introduction to Theology (B231), Alberta Bible College: Oct 2011</li> <li>• Phenotypic plasticity, Evolutionary Biology (BIOL 401), University of Calgary: April 2011</li> <li>• Religious reactions to The Origin of Species, Introduction to Theology (B231), Alberta Bible College: Oct 2010</li> </ul>
2011 to 2024	<p><b>Public School Presentations</b></p> <ul style="list-style-type: none"> <li>• Alberta fish biodiversity. Lake Bonavista School, March 24, 2023.</li> <li>• Biology careers. Lord Beaverbrook High School. March 2017.</li> <li>• Introduction to pond life. Canyon Meadows School, Cochrane High School, New Heights School and Learning Services, Pine Lake Christian Family Camp: 2012-2014</li> <li>• Science as work, New Heights School and Learning Services. Feb 18 2014</li> <li>• Iron Science team leader: 2010-2011</li> </ul>
2024	<p><b>Public Sector Presentations</b></p> <ul style="list-style-type: none"> <li>• Fish collection, Bridlewood duck pond, Nature Calgary, April 29, 2023.</li> <li>• St Patrick’s Island Bioblitz, June 9/10 2023.</li> <li>• Alberta fish biodiversity. Mahogany Homeowner’s Association. May 6, 2023.</li> <li>• Anthropogenically-driven evolution. Red Deer River Watershed Alliance: 2012</li> <li>• Anthropogenically-driven evolution, Sustainability Resources Ltd: Feb 2012</li> </ul>

**PROFESSIONAL MEMBERSHIPS**

<b>Professional Memberships</b>
American Scientific and Christian Affiliation
Canadian Scientific and Christian Affiliation

Canadian Society for Ecology and Evolution
Canadian Society of Zoologists
Entomological Society of Alberta
Nature Calgary
Alberta Nature
InvasiveNet