

Curriculum Vitae of Dr. Krystal Nunes

krystalnunes@gmail.com

WORK EXPERIENCE

- January 2022 – present **Assistant Professor**
Department of Chemistry and Biology, Toronto Metropolitan University
- July 2020 – December 2021 **Postdoctoral Researcher, Undergraduate Educational Resilience and Productive Failure**
University of Toronto Mississauga, Co-Supervisors: Dr. Fiona Rawle and Dr. Nicole Laliberté

EDUCATION

- September 2012 – October 2017 **PhD, Ecology and Evolutionary Biology**
University of Toronto Mississauga. Supervisor: Dr. Peter Kotanen
- Thesis title: Impacts of aboveground and belowground interactions on the performance of an invasive thistle, *Cirsium arvense*
- September 2007 – June 2012 **Honours BSc, Geography (maj.) and Biology (min.)**
York University, Toronto ON
- September 2007 – June 2012 **Certificate in Geographic Information Systems (GIS) and Remote Sensing**
York University, Toronto ON

COURSE INSTRUCTOR EXPERIENCE

- January 2022 – Present **Toronto Metropolitan University, Department of Chemistry and Biology**
- BLG567 Ecology (Winter 2022)
- May 2018 – December 2021 **Sessional Lecturer, University of Toronto Mississauga, Department of Biology**
- BIO152 Intro to Evolution and Evolutionary Genetics (Fall 2021)
 - BIO153 Diversity of Organisms (Summer 2021/2020/2019/2018)
 - BIO205 Ecology (Summer 2021/2020/2019, Fall 2020)
 - BIO331 Ecology of Communities (Winter 2020)
 - BIO330 Plant Ecology (Winter 2019)
 - BIO406 Current Topics in Ecology and Evolution (Fall 2020)
- January 2018 – August 2021 **Academic Professor, Humber College, Dept. of Liberal Arts and Sciences**
- SCIE3100 Extinction (Summer 2021/2020, Winter 2021/2020, Fall 2020)
 - *Administered course offerings for Humber and OntarioLearn*
 - SCIE2005 Intro. to the Environment (Summer 2020/2019, Fall 2019/2018, Winter 2019)
 - SCIE224 Discovering Dinosaurs (Winter 2020, Fall 2019/2018)
 - SCIE3000 Scientific Achievements (Fall 2018, Winter 2018)
- January 2019 – August 2021 **Course Instructor, York University, Department of Biology**
- BIOL1001 Biology II (Summer 2021, Winter 2021)
 - BIOL4700 Current Topics in Environmental Biology (Winter 2019)

ADDITIONAL TEACHING EXPERIENCE

- September 2019 – present **Administrative Teaching Assistant, University of Toronto Mississauga, Dept. of Biology**
- BIO153 Diversity of Organisms
 - BIO205 Ecology

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June 2018 – June 2020	Environmental Educator Toronto and Region Conservation Authority
2012 – 2018	Teaching Assistant , University of Toronto Mississauga, Dept. of Biology <ul style="list-style-type: none">▪ BIO153 Diversity of Organisms▪ BIO330 Plant Ecology▪ BIO203 Introduction to Plant Morphology and Physiology▪ BIO360 Biometrics▪ BIO202 Introduction to Animal Physiology▪ BIO205 Introduction to Ecology

PEER-REVIEWED PUBLICATIONS

1. Nunes, K. A., A. Gagne, N. Laliberté, and F. Rawle. 2022. Evidence-based practices for fostering self-regulated and resilient learners in Innovations in Higher Education Teaching and Learning. Pandemic Pedagogy – Preparedness in Uncertain Times. Emerald Group Publishing, Somerville, MA (accepted book chapter)
2. Nunes, K. A., N. Laliberté, and F. Rawle. 2022. The case for flexibility in online science courses: strategies and caveats. Biochemistry and Molecular Biology Education. (under review)
3. Nunes, K., S. Du, R. Philip, M. Mourad, Z. Mansoor, N. Laliberté, and F. Rawle. 2021. Science students' perspectives on how to decrease the stigma of failure. FEBS Open Bio. DOI 10.1002/2211-5463.13345
4. Richter, C., C. Lortie, T. Kelly, A. Filazzola, K. Nunes, and R. Sarkar. 2020. Online but not remote: adapting field-based ecology labs for online learning. Ecology and Evolution. DOI 10.1002/ece3.7008
5. Nunes, K. A., C. R. Fitzpatrick, and P. M. Kotanen. 2019. Soil biota composition and the performance of a noxious weed across its invaded range. Ecography. DOI 10.1111/ecog.04562
6. Nunes, K. A. and P. M. Kotanen. 2018. Does local isolation allow an invasive thistle to escape enemy pressure? Oecologia. DOI 10.1007/s00442-018-4175-6
7. Nunes, K. A., and P. M. Kotanen. 2018. Comparative impacts of aboveground and belowground enemies on an invasive thistle. Ecology and Evolution. DOI 10.1002/ECE3.3751
8. Anstett, D., K. A. Nunes, C. Baskett, and P. M. Kotanen. 2016. Sources of controversy surrounding latitudinal patterns in herbivory and defense. Trends in Ecology and Evolution DOI 10.1016/j.tree.2016.07.011
9. Nunes, K. A., C. M. Cassin, and P. M. Kotanen. 2016. Variation in herbivory along a latitudinal gradient for native and exotic Asteraceae. Plant Ecology DOI 10.1007/s11258-016-0593-x

TRAINING AND PROFESSIONAL DEVELOPMENT

Workshops and Certifications

April 2022	Flexible Assessments , Toronto Metropolitan University (25 April 2022)
March 2022	Rethinking Graduate Assessments , Toronto Metropolitan University (30 March 2022) Gathering Evidence of Teaching Effectiveness , Toronto Metropolitan University (14 March 2022)
February 2022	Promoting Integrity Through Assessment Design , Toronto Metropolitan University (2 February 2022)
June 2021	Nisitohamowin eLearning: An Introduction to Understanding Indigenous Perspectives in Canada , First Nations University of Canada
June 2021	Unconscious Bias Training Modules , University of Toronto Scarborough

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- October 2020 – May 2021 **Digital Documents Accessibility Training Certificate**, Humber College
- October 2020 – March 2021 **Inclusive Curricular Design Certification**, Humber College
Courses include:
- Creating Accessible Documents
 - Fundamentals of Inclusive Design
 - Technology to Support Effective and Inclusive Learning
 - UDL: From Theory to Practice
- September – November 2020 **Indigenous Canada**, MOOC offered by the University of Alberta
Taught from an Indigenous perspective, this course explored past and present issues facing Canadian Indigenous communities.
- May – June 2018 **Online Clinic for Instructors: Strategies for Teaching an Online Course**, Humber College
- March – November 2017 **Teaching Fundamentals Certification**, University of Toronto
Courses include:
- Transformative Learning in Practice
 - Statement of Teaching Philosophy Clinic
 - Preparing your Teaching Dossier
 - Efficient and Purposeful Grading
 - Creative Pedagogical Uses of Media
 - How do we ask for, understand, and discuss our evaluation feedback?
- September–December 2016 **Teaching in Higher Education Training Course**, University of Toronto

RESEARCH GRANTS, AWARDS, AND SCHOLARSHIPS

- 2022
- Toronto Metropolitan University Learning and Teaching Grant, \$11 500
 - Undergraduate Research Opportunity, OVPRI Toronto Metropolitan University, \$10,491 (co-applicant with undergraduate student)
 - Toronto Metropolitan University Faculty of Science Travel Fund, \$750
- 2016
- Ontario Graduate Scholarship, \$15 000
- 2015
- University of Toronto Zimmerman/Weis Award, \$4935
 - Best Oral Presentation, University of Toronto Mississauga Research Colloquium, \$400
- 2014
- Queen Elizabeth II/Pfizer Graduate Scholarship in Science and Technology, \$15 000
- 2013
- NSERC CGS-M Award, \$17 500
- 2007-2011
- York University Continuing Student Scholarship (2011), \$768
 - York University Renewable Entrance Scholarship (2007-2011), \$8000
 - Geography Undergraduate Achievement Award (2008)
 - York University Science & Engineering Scholarship (2007), \$2000

INVITED PRESENTATIONS

1. Department of Chemistry and Biology Seminar Series. 2022. Fostering resilient scientists: The importance of failure for learning in science. Toronto Metropolitan University. Oral Presentation.
2. utmONE Scholars 'Reframing Failure' Event. 2021. University of Toronto Mississauga. Invited Panelist.

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ACADEMIC CONFERENCE PRESENTATIONS

1. Nunes, K., J. Ross, D. Guadagnolo, A. Bakaj, L. Crupi, S. Liu, M. Petrei, N. Laliberté, and F. Rawle. 2022. Fostering resilient learners: using failure dialogues to minimize the stigma of failure and encourage help-seeking. Society for Teaching and Learning in Higher Education Annual Conference. Ottawa, ON. Oral Presentation.
2. Nunes, K. N. Laliberté, and F. Rawle. 2022. Using failure narratives in the classroom to foster resilient learners and encourage help-seeking. Toronto Metropolitan University Learning and Teaching Conference. Toronto, ON. Oral Presentation.
3. Ross, J., K. Nunes, M. Cowan, K. Derry, J. Goodman, N. Laliberté, and F. Rawle. 2022. Failure across disciplines: modeling productive failure in post-secondary course designs. University of Toronto Teaching and Learning Symposium. Online. Oral Presentation.
4. Nunes, K., J. Ross, D. Guadagnolo, A. Bakaj, L. Crupi, S. Liu, M. Petrei, N. Laliberté, and F. Rawle. 2022. Undergraduate student perspectives of failure: how can instructors foster resilience and encourage help-seeking? University of Waterloo Teaching and Learning Conference. Online. Oral Presentation.
5. Ross, J., K. Nunes, Y. Abdellatiff, E. Baffour, P. Dey, N. Laliberté and F. Rawle. 2022. Partners in failure, partners in learning: modeling failure intervention pedagogy in the university classroom. University of Waterloo Teaching and Learning Conference. Online. Symposium.
6. Nunes, K. A., S. Du, R. Philip, M. Mourad, N. Laliberté and F. Rawle. 2021. Undergraduate science students' perspectives on reducing the stigma of failure. University of Waterloo Teaching and Learning Conference. Online. Oral Presentation.
7. Nunes, K. A., and P. M. Kotanen. 2017. Comparative impacts of aboveground and belowground enemies on an invasive thistle. Ecology and Management of Alien Plant Invasions. Lisbon, Portugal. Oral Presentation.
8. Kotanen, P. M., K. A. Nunes, and J. D. Verbeek. 2017. Accumulation, spillover and spillback: an introduced thistle as a reservoir for insect and pathogen enemies of native plants. International Botanical Congress. Shenzhen, China. Oral Presentation.
9. Nunes, K. A. and P. M. Kotanen. 2016. Above- or belowground interactions: which are more important for invasive plant success? Canadian Society for Ecology and Evolution. St. John's, NF, Canada. Poster Presentation.
10. Nunes, K. A. 2015. Three Minute Thesis Competition. University of Toronto Mississauga. Mississauga, ON, Canada. Oral Presentation.
11. Kotanen, P.M. and K.A. Nunes. 2015. Effects of isolation on damage by above- and below- ground enemies of an invasive thistle. The 13th International Conference on the Ecology and Management of Alien Plant Invasions, Waikoloa, Hawai'i. Oral Presentation.
12. Nunes, K. A. and P. M. Kotanen. 2015. Can belowground interactions drive the spread of an invader? Ecological Society of America. Baltimore, MA, USA. Oral Presentation.
13. Kotanen, P. M and K. Nunes. 2015. Declines in herbivore damage towards northern range limits of native and non-native plants. Ecological Society of America. Baltimore, MA, USA. Oral Presentation.
14. Nunes, K. A. 2015. What drives the spread of an invasive plant species? University of Toronto Mississauga Research Colloquium. Mississauga, ON, Canada. Oral Presentation. *Winner Best Oral Presentation.*
15. Nunes, K. A. 2015. Two Minute Thesis Presentations. University of Toronto Atwood Colloquium. Toronto, ON, Canada. Oral Presentation.
16. Nunes, K. A., C. M. Cassin, and P. M. Kotanen. 2014. Exotic Asteraceae escape enemy pressure near northern range limits. Terrestrial Invasive Plant Society. Mississauga, ON, Canada. Oral Presentation.
17. Nunes, K. A., C. M. Cassin, and P. M. Kotanen. 2014. Exotic Asteraceae escape enemy pressure near northern range limits. Canadian Society for Ecology and Evolution. Montreal, QC, Canada. Oral Presentation.

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18. Nunes, K. A., and P. M. Kotanen. 2013. Spatial variation in aboveground herbivory due to biocontrol agents of the noxious weed *Cirsium arvense*. Canadian Society of Plant Biologists. Mississauga, ON, Canada. Poster Presentation.
 19. Nunes, K. A., and P. M. Kotanen. 2013. Spatial variation in occurrence of biological control agents of the noxious weed *Cirsium arvense*. Ecological Society of America. Minneapolis, MN, USA. Poster Presentation.
 20. Nunes, K. A., and P. M. Kotanen. 2013. Spatial variation in aboveground herbivory due to biocontrol agents of the noxious weed *Cirsium arvense*. Canadian Society for Ecology and Evolution. Kelowna, BC, Canada. Poster Presentation.

DEPARTMENTAL/UNIVERSITY SERVICE

CELT Teaching and Learning Spaces Working Group

- YSGS Representative (May 2022 – May 2023)

PEER REVIEWER FOR ACADEMIC JOURNALS

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| 2022 | <ul style="list-style-type: none">▪ Journal of Ecology (Works Reviewed: 1)▪ Biological Invasions (Works Reviewed: 1) |
| 2019 | <ul style="list-style-type: none">▪ Plant Ecology and Diversity (Works Reviewed: 1) |
| 2018 | <ul style="list-style-type: none">▪ American Journal of Botany (Works Reviewed: 2)▪ Oikos (Works Reviewed: 1) |
| 2015 | <ul style="list-style-type: none">▪ Acta Oecologia (Works Reviewed: 1) |

PUBLIC OUTREACH

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| 2015 – 2018 | Volunteer at The Riverwood Conservancy , Mississauga, ON, Canada <ul style="list-style-type: none">▪ Environmental stewardship leader▪ Education Naturally and LEADS educational program assistant▪ Invasive garlic mustard task force |
| 2016 – 2017 | Invasive Species Summit Coordinator , Ontario Invasive Plant Council, Oakville, ON |
| 2014 – 2016 | Communications Director , University of Toronto Mississauga Association of Graduate Students (UTMAGS) |