

**Poppy Nicolette
Riddle**

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Profile

Currently a PhD student at Dalhousie University where I research the intersection of knowledge mobilization of scholarly production, information seeking and retrieval, and bibliometrics. I am experienced in open access, open sources of bibliometric metadata, its analysis, and use in retrieval augmented generation applications. I have over 6 years cumulative experience teaching both undergraduate and graduate students in person, hybrid, and online. I am keenly interested in scholarly production and enabling its free and open access.

Education

Dalhousie University, Department of Information Science, PhD, 2022-current
Dalhousie University, School of Information Management, Master of Information Management, 2022
California College of the Arts, BFA - Industrial Design Program, Honors, 2010

Certifications

PCEP Certified Entry Level Python Programmer – 2024, certification ID: PrZL.Sogp.B8pZ
Business Communication for Researchers, Sept 4, 2024
Developing and Testing a Business Model Canvas, Dec 6, 2024
Primary Market Research – Foundational, Dec 6, 2024

Peer-reviewed publications

Mongeon, P., Hare, M., **Riddle, P.**, Wison, S., Krause, G., Marjoram R., Toupin, R. (2025) Investigating Document Type, Language, Publication Year, and Author Count Discrepancies Between OpenAlex and Web of Science (submitted). Quantitative Science Studies.

Mongeon, P., Hare, M., **Riddle, P.**, Wison, S., Krause, G., Marjoram R., Toupin, R. (2025) Investigating Document Type, Language, Publication Year, and Author Count Discrepancies Between OpenAlex and Web of Science. Preprint. DOI: 10.48550/arXiv.2508.18620

Hare, M., **Riddle, P.**, Toze, S., Kraglund-Gauthier, W., Brown, A., McNiff, L., Hunter, J. (2025) Reading the Province. Canadian Journal of Information and Library Science. DOI: 10.29173/cais1898

Sauvé, J.-S., Hare, M., Krause, G., Poitras, C., **Riddle, P.**, & Mongeon, P. (2025). A bibliometric analysis of Canadian LIS scholars and practitioners' research contributions. Canadian Journal of Information and Library Science. DOI: 10.5206/cjils-rcsib.v48i1.22439

Rémi Toupin, Geoff Krause, **Poppy Riddle**, Madelaine Hare and Philippe Mongeon. (2025). Identifying ocean-related literature using the UN Second World Ocean Assessment report. Ocean and Society. DOI: [10.17645/oas.8924](https://doi.org/10.17645/oas.8924)

Sauvé, J.-S., Hare, M., Krause, G., Poitras, C., **Riddle, P.**, & Mongeon, P. (2024). Canadian Publications in Library and Information Science: A Database of research by LIS academics and practitioners in Canada. Canadian Journal of Information and Library Science. DOI: 10.5206/cjils-rcsib.v48i1.22200

Riddle, P. et al., (2023). The State of OA in the U15 Canadian Academic Repositories. Canadian Journal of Information & Library Science (CJILS). DOI: 10.5206/cjils-rsib.v46i2.15358

Gracey et al., (2023). Mapping the Canadian Library and Information Science research landscape. Canadian Journal of Information & Library Science (CJILS). DOI: 10.5206/cjils-rsib.v46i2.15568

Riddle, P. (2022). A visual analysis method comparing keywords from two search results using keyword co-occurrences, Thesis. Dalhousie University, Halifax, Canada.

Taylor et al., (2022). Ted's Teas: A Two-part Accounting and Audit 'Cross-over Case'. Accounting Perspectives/Perspectives Comptables. DOI: 10.1111/1911-3838.12334

Conferences & Presentations

Mongeon, P., Hare, M., Krause, G., Marjoram, R., **Riddle, P.**, Toupin, R., Wilson, S. (2025) Investigating Document Type Discrepancies between OpenAlex and the Web of Science. Proceedings of the Annual Conference of CAIS/Actes due congrès annuel de l'ACSI. DOI: 10.29173/cais1943

Orian, C., **Riddle, P.**, Toupin, R., Krause, G., Mongeon, P., Books, S. (2025) Ocean Science Visualization Via the World Ocean Assessment. IV2025: 29th International Conference Information Visualization. Damstadt, Germany August 5-8, 2025.

Saiyed, Z., **Riddle, P.**, Orian, C., Krause, G., Toupin, R., Kanagaraj, G., Mongeon, P., Brooks, S. (2025). RAG Based Navigation of the World Ocean Assessment II (accepted). Natural Language Processing 4 Sustainability (NLP4Sustain) Workshop, KONVENS 2025. Hildesheim, Germany October 9, 2025.

Sauvé, J.-S., Hare, M., Krause, G., Poitras, C., **Riddle, P.**, & Mongeon, P. (2024). A Bibliometric Analysis of Canadian LIS Scholars and Practitioner's Research Contributions. Canadian Association of Information Science (CAIS/ACSI) Conference 2025. DOI:10.5206/cjils-rsib.v48i1.22439

Sauvé, J.-S., Hare, M., Krause, G., Poitras, C., **Riddle, P.**, & Mongeon, P. (2024). Canadian Publications in Library and Information Science: A Database of research by LIS academics and practitioners in Canada. 52nd Annual Conference of the Canadian Association for Information Science /l'Association canadienne des sciences de l'information (CAIS/ACSI) June 6-9, 2024. DOI: 10.5206/cjils-rsib.v48i1.22200

Rémi Toupin, Geoff Krause, **Poppy Riddle**, Madelaine Hare, Philippe Mongeon, (2024). Clear as water: measuring the visibility of ocean literature topics using citations, news mentions, and policy mentions [Poster]. 29th Nordic Workshop on Bibliometrics & Policy Research 2024. University of Iceland, Reykjavík, Iceland Nov. 20-22, 2024.

Poppy Riddle, Rémi Toupin, Geoff Krause, Madelaine Hare, and Philippe Mongeon, (2024). Mapping the UN Second World Ocean Assessment: Challenges and opportunities [Poster abstract]. Science, Technology and Innovation Indicators Conference, Berlin Sept 18-20, 2024. DOI: 10.5281/zenodo.14063100

Riddle, P. (2024). Exploratory Search and Generative AI. Information Without Borders Conference, Dalhousie University March 25, 2024.

Riddle et al., (2023). The use of institutional repositories for self-archiving in Canadian Universities. 51st Annual Conference of the Canadian Association for Information Science /l'Association canadienne des sciences de l'information (CAIS/ACSI) June 6-9, 2023.

- Turkmen et al., (2023). Put your glasses on: A voxel-based 3D authentication system in VR using eye-gaze. 2023 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW). DOI: 10.1109/VRW58643.2023.00316
- Hare, M., Conrad, C., Toze, S., **Riddle, P.**, Chaves Baquero, J. (2023). Digitizing the Humanities and Social Sciences: The Future of Learning and Teaching. Consortium of Higher Education Researchers (CHER) 2023 annual conference.
- Riddle P.** (2022). What am I missing if I use one search term over the other? CAIS 2022, Student Research Forum.
- Riddle, P.** (2022). Comparing search terms for overlap and exclusions: a visual analysis. Dalhousie SIM Research Day.
- Riddle, P.** (2021). Keyword co-occurrence maps as visual analysis. LAMNS Conference.
- Riddle, P.** (2021). Viewing information spatially. Dalhousie SIM Research Day.

Datasets

- Toupin, R., Krause, G., Riddle, P., Hare, M., Mongeon, P. (2024). Identifying Ocean-Related Literature Using the UN Second World Ocean Assessment Report (Dataset). Zenodo. DOI: <https://doi.org/10.5281/zenodo.14082107>
- Sauvé, J.-S., Hare, M., Krause, G., Poitras, C., **Riddle, P.**, & Mongeon, P. (2024). Canadian publications in Library and Information Science / Publications canadiennes en bibliothéconomie et sciences de l'information[Dataset]. Zenodo. DOI: 10.5281/zenodo.14302591
- Mongeon, Philippe, & Sauvé, Jean-Sébastien. (2023). Canadian publications in Library and Information Science (BETA) / Publications canadiennes en bibliothéconomie et sciences de l'information (BETA) (0.0.0) [Data set]. Zenodo. DOI: 10.5281/zenodo.7539011
- Mongeon, P., Bowman, T., Costas, R. (2022). Open dataset of scholars on Twitter. <https://doi.org/10.5281/zenodo.7013518>.

Online Educational Resources & Websites

- Riddle, P.**, Haustein, S., Alperin, J.P. (2024). Article Processing Charges Explorer. <https://www.scholcommlab.ca/apc-explorer/>
- Riddle, P.** (2024) Information Science Database Explorer. Python. <https://poppy-nicolette.github.io/CanadianLIS/main.html>
- Hare, M. & **Riddle, P.** (2023). Citation Diversity LibGuide. <https://dal.ca.libguides.com/ScholarlyCommunications/citationdiversity>
- Mongeon P., & **Riddle P.** (2023). Chapter 11 & 12 Shiny apps. INFO 6270 Data Science. <https://pmongeon.github.io/info6270/shinyapps.html>
- Riddle, P.** & Mongeon P. (2022). BiblioBox: an online bibliometric calculator and retrieval tool for OpenAlex. <https://pnriddle.shinyapps.io/BibloBox/>
- Mongeon, P. & **Riddle, P.** (2022). BiblioNet: an online network graph generator for OpenAlex data. <https://pmongeon.shinyapps.io/network-generator/>
- Riddle et al.**, (2022) OCR Notebook: a Python tool for turning scans to text. https://github.com/DigitalHugManitees/DH_Topic_Workshop/blob/main/OCR_text_analysis_on_Colab
- Riddle et al.**, (2022) LDA Notebook: a Python tool for analyzing text into topics. https://github.com/DigitalHugManitees/DH_Topic_Workshop/blob/main/LDA_with_ngrams_on_Colab
- Riddle et al.**, (2022) Digital Humanities Topic Modelling Workshop Documentation. https://digitalhugmanitees.github.io/DH_Topic_Workshop/

Mongeon P., & **Riddle P.** (2022) Chapter 12 Citation Justice. Information in Society. <https://pmongeon.github.io/information-in-society/>

Reports

Riddle, P. et al., (2021). Report on State of the Art of CO2 Management Strategies for the Dalhousie Office of Sustainability. Dalhousie University, Halifax, Canada.

Riddle, P., Charlebois, S., Music, J. (2021). Tipping in Canada report. Dalhousie University, Halifax, Canada.

Editorials & Media

Riddle, P. (2025, September 29). XML-ementary, my dear Watson, XML-ementary. The Bibliomagician. DOI: <https://doi.org/10.59350/86wtd-d3b71>

Riddle, P. & Charlebois S. (2021). At the tipping point: ... The Conversation. <https://theconversation.com/at-the-tipping-point-its-time-to-include-tips-in-menu-prices-as-restaurants-reopen-from-covid-lockdowns-164017>

Riddle, P. (2021). Newspaper, radio, and television interviews, including CBC, The Star, and the National Post.

Teaching Experience

Dalhousie University

MGMT1601, Management Tools and Technology, Winter 2024 – Instructor for undergraduate required course, exploring MS tools and integrations, web applications, cloud data, APIs and databases, and machine learning.

MGMT2605, Working with Data Fall 2023 – Instructor for the undergraduate required course in data analysis in Excel, Tableau, ArcGIS.

Data Champion Graduate Associate June 2022 – May 2023 – Development of workshops for social sciences and humanities researchers to learn digital humanities tools through distributed Python notebooks.

INFO 6850 Bibliometrics – Teaching assistant for Fall 2022 – Introduction to citation-based and context-based metrics of scholarly production, data manipulation, and network graph visualization.

MGMT 2605 Working with Data – Teaching Assistant for Fall 2022, basics of data exploration, cleaning, and visualization.

INFO 6270 Data Science – Curriculum Development Grant Winter 2023 to deliver two chapters on creating Shiny apps.

California College of the Arts

Modelmaking - Introduction to basic construction techniques and appropriate prototyping.

ID5 - Full semester project exploring the urban commute experience, student-initiated projects that resulted in speculative proposals for a future commute based on current technology.

Framebuilding 1- Investigative studio in bicycle frame construction. Taught oxyacetylene torch use and safety, metal cutting principles, machine shop safety and use of the mill and lathe, bicycle frame design and construction, fillet brazing and refinement, painting, and graphics.

Advanced Geometry Fabrication – An exploratory studio for new form generation software and natural fiber composites construction.

ID1 - Introduction to human-centered design approach, concept development, modelmaking and presentation skills.

ID2 - Project centered instruction to teach design methods and manufacturing techniques.

DC1 - Instruction in linear and non-linear elements of perspective for designers.

2D Studio - First year studio - sketching, idea generation techniques and prototyping.

Academic Experience

Sessional Instructor, Faculty of Management, Fall 2023-Winter 2024

Teaching two undergraduate required courses in digital tools and data analysis.

Data Champion Graduate Associate June 2022 - May 2023

Awarded by the Digital Research Alliance of Canada, creation of Python based notebooks and OERs introducing methods of digital humanities, including topic modeling, OCR, and TF-IDF for researchers and scholars at Dalhousie.

Project Manager, Maritime Institute of Society, Technology & Society - (09/2121 to Summer 2023). Applications for external funding and exploratory research for future projects.

Research Assistantship, QSS Lab (06/2020 to May 2022)

Apply Python to research projects for data cleaning, bibliometric analysis and visualization. Currently learning back-end databases and front-end deployments in Python environments. Contributed to scholarly production as principal investigator, and grant application writing.

Practicum, assistant to Systems Librarian, NSCAD (2021)

Assessed the library's LibGuides for accessibility and use with screen readers. Provided written report of assessment, with map of action items for improvement, including ARIA.

Assistant Professor, Industrial Design & First Year Dept., California College of the Arts - 2017 to 2020 (Sr. Lecturer from 2010 to 2016)

Teaching and curriculum development - Industrial Design and First Year students.

Shop and technology liaison - Improved coordination between ID curriculum and shop resources, new tool, and equipment recommendations, constructed tools and fixtures.

Program expert - Performed portfolio reviews, transfer assessment and placement for ID Department in coordination with Academic Advisor and Admissions for the 2018/2019 academic year.

Professional Experience

Technical Support Contractor, Crossref - 2023-Dec 2024 Remote position. Provide technical metadata support, training, and correction of quality issues for the registration, maintenance, ingest, and retrieval of bibliometric metadata by publishers around the world.

Freelance Product Designer and Prototyping Services, 2004-2020. Tiburon, California

Director of Product Development, TRP USA / Tektro Brakes - 2012 to 2017 Ogden, Utah & Taichung, Taiwan

Strategy, research & intellectual property, management & partnerships, concept development, engineering, product documentation

Product Development Engineer - 2010 to 2012

Easton Bell Sports, Scotts Valley, CA

Associate Engineer - 2003 to 2006

Fox Racing Shox, Inc. Watsonville, CA

Engineering Manager – 2001 to 2003

Titec Cycles, USA Milpitas, CA

Research and Development Associate Engineer – 1997 to 2001

RockShox, Inc Colorado Springs, CO 80907

Awards & Scholarships

Ocean Frontier Institute, TCA, Theme 3.2, (\$20,000 per year for 3 years) 2025-current

FGS Dept Allocation (\$14644) 2024-2025

Annual Giving Scholarship (\$1111) 2024-2025

Mitacs Accelerate Award with Literacy Nova Scotia, (\$30,000), 2025

Mitacs BSI – Validate Award, (\$15,000), Fall 2024

Best Paper 2023, Accounting Perspectives, (\$400 per author), 2024

Nova Scotia Graduate Scholarship, (\$15000/year for 4 years), 2022-2026

Curriculum Development Grant, (\$5000), 2023

Best Student Paper Award, Metrics 2022: ASIS&T Virtual Workshop on Informetrics and Scientometrics Research (\$250), 2022

Digital Research Alliance of Canada, (\$6,000), 2022

MISTS PhD Scholarship, (\$3000), 2022

SIM PhD Scholarship, (\$5000), 2022

SIM Vagianos Innovation Medal, 2022

CARL Research Grant, (\$1000), 2022

Erudit/Coalition Publica Scholarship, (awarded \$5500), 2021

Faculty Development Grant, CCA, (awarded \$3000), 2016

Red Dot Awards - TRP Brakes / Tektro, 2016

Spark Awards - Sparse Lights, 2014

IF Awards - Echo Wheels, Easton, 2013

Student Leadership Award, 2009 & 2010

Top 3 Finalist, James Dyson Award, 2009

All College Honors Award and Scholarship, 2009

Carmen M. Christensen Scholarships, 2007-2009

Best of Year, annual Review - Bike Magazine, 2003

Intellectual Property

Patent application with World Centric on utensil dispenser, 2019

Patent applications with Tektro/TRP brakes for brake and lever related areas.

2 patent applications with Easton Bell Sports

Knowledge areas Advanced literature searching skills & scholarly writing.
Scholarly Communications including open access, publishing, licensing, and metadata.
Bibliometrics, for individual and institutional evaluation, including strategic planning for research mobilization
Quantitative and Qualitative research methods typical of CS and IS
Documentation using OERs and providing training via class or workshops
Expertise in applications for exploratory search including use of large language models in search and retrieval
REST APIs and schema used in bibliometric metadata
Python programming for data science, Shiny and Streamlit applications.
R programming language for data science and Shiny applications.
XML schemas
Inkscape and GIMP (open source), Adobe Illustrator for infographics, Adobe InDesign for layout and production
Gephi & VosViewer for network visualization
SQL and relational databases
Online Education Resources, LibGuides with accessibility for screen readers
Extensive design experience including graphic design principles

Service Reviewer, 2026. Canadian Association of Information Science (CAIS/ACSI) 2026 Conference.
Editor and organizer, 2025. Canadian Association of Information Science (CAIS/ACSI) 2025 Conference Organizing Committee member
Webmaster, 2024-2026. Executive Board Member, Canadian Association of Information Science, (CAIS/ACSI).
Secretary, 2022-2024. Executive Board Member, Electric WhEels Junior Roller Derby Team.