CURRICULUM VITAE

Name: Charles Cole

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PRESENT POSITION

2010-	Researcher, Affiliate Member School of Information Studies McGill University 3661 Peel Street Montreal, Quebec H3A 1X1 Phone: (514) 398-4204
2001-2010	Research Associate School of Information Studies McGill University 3661 Peel Street Montreal, Quebec H3A 1X1 Phone: (514) 398-4204
2000-	Colemining Inc. (information retrieval design consulting) Phone: (514) 849-2080; e-mail: cbcole@videotron.ca
2001-	Execuform, Senior Teacher, Curriculum Development, Evaluation Pam Murray (President) P.O. Box 48842 CSP Outremont Outremont, Quebec, H2V 4V2 Phone: (514) 1-888-278-1814
2011-	North American Editor http://informationr.net/ir/editors.html Information Research http://informationr.net/ir/

CAREER HIGHLIGHTS:

(1) A bibliometric study ranked Charles Cole as #4 for impact in the 1991-2000 decade for information retrieval "evaluation" (searching, user studies, etc.). Ding, Y. (2011). Topic-based PageRank on author cocitation networks. Journal of the American Society for Information Science and Technology, 62(3), 449-466; see page 456, Table 4 and page 464, Table A3).

(2) A recent bibliometric study lists Charles Cole as #6 author with the most articles published in the Journal of the American Society for Information Science and Technology from 2000-2007 (see p. 351 in Mukherjee, B. (2009). Journal of the American Society for Information Science and Technology (2000-2007): a bibliometric study. *IFLA Journal*, 35(4), 341-358).

WORK HISTORY

2008-08   Managing Editor
International Journal of Critical Pedagogy
http://freire.mcgill.ca/ojs/index.php/home/index
The Paulo & Nita Freire International Project for Critical Pedagogy
Integrated Studies in Education,
Faculty of Education
McGill University
3700 McTavish Street
Montreal, Quebec H3A 1Y2

2007-08   Project Manager
Paulo Freire Project (archive, Web site development)
http://freire.mcgill.ca/
Integrated Studies in Education, Faculty of Education
McGill University
3700 McTavish Street
Montreal, Quebec H3A 1Y2

2005-2006   Project Manager
ENVI Project (3D multimedia)
www.envi-iven.com/
School of Information Studies
McGill University
3459 McTavish Street
Montreal, Quebec H3A 1Y1
Phone: (514) 398-4204

1999-00   Research Associate
Communication Studies
Concordia University
7141 Sherbrooke St. West, BR-111
Montreal, Quebec, Canada H4B 1R6

1997-99   Post-doctoral Fellow
Communication Studies
Concordia University
7141 Sherbrooke St. West, BR-111
Montreal, Quebec, Canada H4B 1R6

1994-96	Assistant Professor (Contract) Graduate School of Library and Information University of Western Ontario London, Ontario, Canada N6G 1H1
1978-89	Reference Assistant McGill Library System (Phys.Ed., Education, Map, and Law Libraries) Montreal, Quebec

EDUCATION

Post-doctorate	Department of Communication Studies Concordia University Montreal, Quebec (1997-99)
Ph.D.	Department of Information Studies The University of Sheffield Sheffield, England Completed: 1994
M.L.I.S.	(Masters Library & Information Science). Montreal, Quebec. Completed 1989.
B.A.	(Joint Honours History-Geography). McGill University, Montreal, Quebec. Completed 1978.

TEACHING

At McGill University's School of Information Studies

1. Research Methods: Lecturer in 2010 at McGill University's School of Information Studies. Masters level required course (75 students). Course creation, teaching and evaluation.
2. Research Design in Information Studies: Lecturer in 2010 at McGill University's School of Information Studies. Ph.D. level required course (5 students). Course creation, teaching and evaluation.
3. Library Systems: Lecturer in 2002. Masters level. Elective course (17 students). Creation, teaching and evaluation.

At University of Western Ontario's School of Library and Information Studies

4. Reference: Masters level course: Non-tenure tract professor in 1994-1996 at University of Western Ontario's School of Library and Information Studies. Course creation, teaching and evaluation. 45 students in courses.

5. Collection Development: Masters level course: Non-tenure tract professor in 1994-1996 at University of Western Ontario's School of Library and Information Studies. Course creation, teaching and evaluation. 45 students in courses.
6. Advanced Reference: Masters level course: Non-tenure tract professor in 1994-1996 at University of Western Ontario's School of Library and Information Studies. Course creation, teaching and evaluation. 5 students in courses.
7. Historiography: Ph.D. level course: Non-tenure tract professor in 1994-1996 at University of Western Ontario's School of Library and Information Studies. Course creation, teaching and evaluation. 1 student.

GRANTS

2010-2013
Co-applicant: SSHRC – Social Sciences and Humanities Research Council of Canada: $139,000. Jamshid Beheshti (PI-Applicant).
2002-2005
Co-applicant: SSHRC – Social Sciences and Humanities Research Council of Canada: $80,269. Integrating classification visualization devices for undergraduate users of information retrieval systems. John E. Leide (PI-Applicant).
1997-1998
PI-Applicant: SSHRC - Social Sciences and Humanities Research Council of Canada: $60,000. The development of a diagnostic-prescriptive tool for undergraduates seeking online information in academic libraries for course work in the social sciences.
1997-2000
PI-Applicant: SSHRC - Social Sciences and Humanities Research Council of Canada: $19,100. The development of a diagnosticprescriptive tool for undergraduates seeking online information in academic libraries for course work in the social sciences.

NORTH AMERICAN EDITOR and EDITORIAL BOARD MEMBER FOR THE JOURNAL:
Information Research http://informationr.net/ir/editors.html

REFEREE/REVIEWER for CONFERENCES/FOUNDATIONS/JOURNALS:
Conference Reviewer
American Society for Information Science and Techology, ASIST 2010 Conference (Submission Reviewer)
IIIX, IiiX 2012, 2010, 2008, 2006: Information Interaction in Context Conferences (Program Committee Member, Submission Reviewer)
ISIC 2012 Committee Member, Submission Reviewer

Foundations Reviewer
National Science Foundation (NSF) (U.S.)
European Science Foundation
Israel Science Foundation (ISF)

Journal Reviewer
The Journal of the American Society for Information Science and Technology
Information Processing & Management
Journal of Documentation
Information Research
Chinese Journal of Library and Information Science

CONFERENCES (recent)
Kuhlthau, C. C. & Cole, C. (2012). Third Space as an Information System and Services Intervention Methodology for Engaging the User's Deepest Levels of Information Need. ASIST 2012. Baltimore, MA.

Kuhlthau, C. C., Cole, C., Bates, M., Case, D. O., Cole, C., Dervin, B., & Fisher, K. (2012). Panel. Crossing the Divide: Putting Information Seeking Research and Theory into Computer Science Practice to Make Information Search Systems and Services More Effective for the User. ASIST 2012. Baltimore, MA.

Cole, C. (2010). Workshop Keynote Speaker. What in the World are We Talking About: The Differences That Definitions Make in Core Concepts (SIGs SI & USE). ASIST 2010. Navigating Streams in an Information Ecosystem. ASIS&T 2010 Annual Meeting. Pittsburgh, PA, Oct. 22-27.

Cole, C., Spink, A., & Currier, K. (2009). ASIST 2009: Panel Organizer, panelist: Evolutionary Approaches to Information Science Research and Information Use. ASIST 2009: Thriving on Diversity – Information Opportunities in a Pluralistic World ASIS&T 2009 Annual Meeting, November 6-11, 2009, Vancouver, BC, Canada.

Cole, C. (2008). ASIST 2008. Transforming Information – Information Transforming People: What the Neanderthals Can Teach Us. American Society for Information Science and Technology ASIST 2008. October 24-29, 2008. Columbus, OH.

Beheshti, J., Large, A., Kee, K., & Cole, C. (2006). Designing virtual environments in an educational context. Information Science Revisited: Approaches to Innovation. Annual Conference of the Canadian Association for Information Science, Toronto, June 1-3, 2006. www.cais-acsi.ca/proceedings/2006/beheshti_2006.pdf.

Cole, C., Leide, J. E., Nwakamma, E., Beheshti, J., & Large, A. (2003). Structure of domain novice users' queries to a history database. *Proceedings of the 66th Annual Meeting of the American Society for Information Science and Technology*. Humanizing Information Technology: From Ideas to Bits and Back. Long Beach, CA, October 19-22, 2003 (pp. 271-279).

Cole, C., & Kuhlthau, C. (2000). Information and information seeking of novice versus expert lawyers: How experts add value. Information Seeking in Context (ISIC) 2000 Conference. August 16-18, 2000. Goteberg, Sweden.

BOOKS
1. Cole, C. (2012). *Information Need: A Theory Connecting Information Search to Knowledge Formation*. Medford, NJ: Information Today Inc.

2. Spink, A., & Cole, C. (Eds.) (2006). *New Directions in Human Information Behavior*. Dordrecht: Springer.

3. Spink, A., & Cole, C. (Eds.) (2005). *New Directions in Cognitive Information Retrieval*. Dordrecht: Springer.

SPECIAL JOURNAL ISSUES (EDITOR)
1. Guest editor (with Amanda Spink) of two special issues on information seeking for the *Journal of the American Society for Information Science and Technology,* 55(8) and 55(9), 2004.

Two articles in these issues won awards:

- The 2005 John Wiley & Sons Best JASIST Paper Award Winner: Rieh, S. Y. (2004). On the Web at home: Information seeking and Web searching in the home environment. *Journal of the American Society for Information Science and Technology,* 55(8), 743-753.
- The 2005 Jesse H. Shera Award for Distinguished Published Research Winner: Fisher, K. E., Durrance, J. C., & Hinton, M. B. (2004). Information grounds and the use of need-based services by immigrants in Queens, New York: A context-based, outcome evaluation approach. *Journal of the American Society for Information Science and Technology,* 55(8), 754-766.

2. Guest editor (with Amanda Spink) of a special issue on everyday life information seeking (ELIS) for *Library and Information Science Research*, 23(4) December 2001.

BOOK CHAPTERS
(1) Cole, C. (in press). Concepts, propositions, models and theories in information behavior research. In Jamshid Beheshti & Andrew Large (Eds.). Children's information behaviour in the digital age. Lanham, MD: Scarecrow Press.

(2) Cole, C. & Leide, J. E. (2006). A Cognitive Framework for Human Information Behavior: The Place of Metaphor in Human Information Organizing Behavior. In C. Cole & A. Spink (Eds.). New Directions in Human Information Behavior (pp.171-202). Dordrecht: Springer.

(3) Spink, A., Park, M. & Cole, C. (2006). Multitasking and Coordinating Framework for Human Information Behavior. In C. Cole & A. Spink (Eds.). New Directions in Human Information Behavior (pp. 137-154). Dordrecht: Springer.

(4) Cole, C., Beheshti, J., Leide, J. E. & Large, A. (2005). Interactive Information Retrieval: Bringing the User to a Selection State. In C. Cole & A. Spink (Eds.). New Directions in Cognitive Information Retrieval (pp. 13-41). Dordrecht: Springer.

(5) Spink, A. & Cole, C. (2005). A Multitasking Framework for Cognitive Information Retrieval. In C. Cole & A. Spink (Eds.). New Directions in Cognitive Information Retrieval (pp. 99-112). Dordrecht: Springer.

REFEREED JOURNAL PUBLICATIONS (45)

(1) Charles Cole, Jamshid Behesthi, Andrew Large, Isabelle Lamoureux, Dhary Abuhimed and Mohammed Al-Ghamdi (in press). Seeking Information for a Middle School History Project: The Concept of Implicit Knowledge in the Students' Transition from Stage 3 to Stage 4 in Kuhlthau's ISP Model. *Journal of the American Society for Information Science and Technology.*

(2) Cole, C. (2011). A Theory of Information Need for IR that Connects Information to Knowledge. *Journal of the American Society for Information Science and Technology*, 62(7), 1216-1231.

(3) Wright, T., Park, E. G., & Cole, C. (2011). Collaborator tools in virtual education communities: A case of the Paulo Freire Project for Critical Pedagogy. *The New Educational Review*, 24(2), 271-280.

(4) Cole, C., Julien, C.-A. &. Leide, J. E. (2010). An associative index model for hypertext Internet search based on Vannevar Bush's Memex machine: An exploratory case study. *Information Research*, 15(3), paper 435. [Available at http://informationr.net/ir/15-3/paper435.html]

(5) Julien, C.-A., & Cole, C. (2009). Capitalizing on controlled subject vocabulary by providing a map of main subject headings : An exploratory design study. *Canadian Journal of Information Science*, 33(1/2), 67-83.

(6) Cole, C. (2008). A Socio-cognitive Framework for Designing Interactive IR Systems: Lessons from the Neanderthals. *Information Processing & Management*, 44, 1784-1793.

(7) Spink, A., Cole, C. & Waller, M. (2008). Multitasking behavior. *Annual Review of Information Science and Technology (ARIST)*, 42, 93-118.

(8) Cole, C., Lin, Y., Leide, J. E., Large, A., & Beheshti, J. (2007). A Classification of Mental Models of Undergraduates Seeking Information for a Course Essay in History and Psychology: Preliminary Investigations into Aligning their Mental Models with Online Thesauri. *Journal of the American Society for Information Science and Technology*, 58(13), 2092-2104.

(9) Leide, J. E., Cole, C., Beheshti, J., Large, A., & Lin, Y. (2007). Task-based IR: Essay-types as query formulation devices for undergraduates researching a history essay. *Journal of the American Society for Information Science and Technology*, 58(9), 1227-1241.

(10) Spink, A. & Cole, C. (2007). Information behavior: A socio-cognitive ability. *Evolutionary Psychology*, 5(2), 257-274. www.epjournal.net

(11) Yi, K., Beheshti, J., Cole, C., Leide, J. E., & Large, A. (2006). User Search Behavior of Domain-specific IR Systems: An Analysis of the Query Logs from PsycINFO and ABC-Clio's Historical Abstracts/America: History and Life. *Journal of the American Society for Information Science and Technology,* 57(9), 1208-1220.

(12) Spink, A., & Cole, C. (2006). Human Information Behavior: Integrating diverse approaches and information use. *Journal of the American Society for Information Science and Technology*, 57(1), 25-35.

(13) Cole, C., Leide, J. E., Beheshti, J., Large, A., & Brooks, M. (2005). Investigating the ASK Hypothesis in a Real-life Problem Situation: A Study of History and Psychology Undergraduates Seeking Information for a Course Essay. *Journal of the American Society for Information Science and Technology*, 56(14), 1544-1554.

(14) Cole, C., Leide, J. E., Large, A., Beheshti, J., & Brooks, M. (2005). Putting it together online: information need identification for the domain novice user. *Journal of the American Society for Information Science and Technology*, 56(7), 684-694.

(15) Spink, A., & Cole, C. (2004). A human information behavior approach to a philosophy of information. *Library Trends*, 52(3), 617-628.

(16) Spink, A., Koricich, A., Jansen, B. J., & Cole, C. (2004). Sexual information seeking on Web search engines. *CyberPsychology & Behavior*, 7(1), 65-72.

(17) Leide, J. E., Large, A., Beheshti, J., Brooks, M., & Cole, C. (2003). Visualization schemes for domain novices exploring a topic space: the navigation classification scheme. *Information Processing & Management,* 39(6), 923-940.

(18) Cole, C., & Leide, J. (2003). Using the User's Mental Model to Guide Integration of Information Space into Information Need. *Journal of the American Society for Information Science and Technology*, 54(1), 39-46.

(19) Large, A., Beheshti, J., & Cole, C. (2002). Information architecture for the Web: the IA Matrix approach to designing children's portals. *Journal of the American Society for Information Science and Technology*, 53(10), 831-838.

(20) Cole, C., Mandelblatt, B., & Stevenson, J. (2002). Visualizing a High Recall Search Strategy Output for Undergraduates in an Exploration Stage of Researching a Term Paper. *Information Processing & Management*, 38, 37-54.

(21) Spink, A., & Cole, C. (2001). Everyday life information seeking research. *Library and Information Science Research*, 23(4), 301-304.

(22) Cole, C. (2001). Intelligent information retrieval: Part IV. Testing the timing of two information retrieval devices in a naturalistic setting. *Information Processing & Management*, 37, 163-182.

(23) Spink, A. & Cole, C. (2001). Information and poverty: Information-seeking channels used by African American low-income households. *Library & Information Science Research*, 23, 45-65.

(24) Cole, C. (2000a). Inducing Expertise in History Doctoral Students via Enabling Information Retrieval Design. *Library Quarterly*, 70(1), 86-109.

(25) Cole, C. (2000b). Interaction with an 'Enabling' Information Retrieval System: Modeling the User's Decoding and Encoding Operations. *The Journal of the American Society for Information Science*, 51(5), 417-426.

(26) Cole, C. (2000c). Name Collection by Ph.D. History Students: Inducing Expertise. *The Journal of the American Society for Information Science*, 51(5), 444-455.

(27) Cole, C., Cantero, P., & Ungar, A. (2000). The Development of a Diagnostic-Prescriptive Tool for Undergraduates Seeking Information for a Social Science/Humanities Assignment: Part III. Enabling Devices. *Information Processing and Management.* 36(3), 481-500.

(28) Cole, C. & Kuhlthau, C. (2000). Information and information seeking of novice versus expert lawyers: how experts add value. *The New Review of Information Behaviour Research*, 1, 103-115.

(29) Cole, C. & Mandelblatt, B. (2000). Using Kintsch's discourse comprehension theory to model the user's coding of an informative message from an enabling information retrieval system.*The Journal of the American Society for Information Science*, 51(11), 1033-1046.

(30) Cole, C. (1999). The Activity of Understanding a Problem during Interaction with an 'Enabling' IR System. *Journal of the American Society for Information Science*, 50(6), 544-552.

(31) Kennedy, L., Cole, C. and Carter, S. (1999). The False Focus in Online Searching: The Particular Case of Undergraduates Seeking Information for Course Assignments in the Humanities and Social Sciences. *Reference & User Services Quarterly,* 38, 267-273.

(32) Cole, C. (1998a). Information Acquisition in History Ph.D. Students: Inferencing and the Formation of Knowledge Structures. *Library Quarterly*, 68(1), 33-54.

(33) Cole, C. (1998b). Intelligent Information Retrieval: Part I. Diagnosing Information Need. The Theoretical Framework for Developing an Intelligent Information Retrieval Tool. *Information Processing and Management*, 34(6), 709-720.

(34) Cole, C., Cantero, P., and Sauve, D. (1998). Intelligent Information Retrieval: Part II: Diagnosing Information Need: Uncertainty Expansion: A Prototype of a Diagnostic IR Tool. *Information Processing and Management*, 34(6), 721-737.

(35) Cole, C. (1997a). Calculating the Information Content of an Information Process for a Domain Expert Using Shannon's Mathematical Theory of Communication: A Preliminary Analysis. *Information Processing and Management*, 33(6), 715-726.

(36) Cole, C. (1997b). Information as Process: The Difference Between Corroborating Evidence and "Information" in Humanistic Research Domains. *Information Processing and Management*, 33, 55-67.

(37) Kennedy, L., Cole, C. and Carter, S. (1997). Connecting Online Search Strategies and Information Needs: A User-Centred, Focus-Labelling Approach. *RQ*, 36, 562-568.

(38) Cole, C., Kennedy, L. and Carter, S. (1996). The Optimization of Online Searches Through the Labelling of a Dynamic, Situation-Dependent Information Need: The Reference Interview and Online Searching for Undergraduates Doing a Social Science Assignment. *Information Processing and Management*, 32, 709-717.

(39) Cole, C. (1994). Operationalizing the Notion of Information as a Subjective Construct. *Journal of the American Society for Information Science*, 45(7), 465-476.

ARTICLE HIGHLIGHT: Cole, C. (1994). Operationalizing the Notion of Information as a Subjective Construct. *Journal of the American Society for Information Science*, 45(7), 465-476. Highlighted in Marcia Bates' summary of Journal of the American Society for Information Science (JASIS) through the years.

A TOUR OF INFORMATION SCIENCE
THROUGH THE PAGES OF *JASIS*

by
Marcia J. Bates, Guest Editor
Published in Journal of the American Society for Information Science,
vol. 50, no. 11, 1999, pp. 975-993

(40) Cole, C. (1993). Shannon Revisited: Information in Terms of Uncertainty. *Journal of the American Society for Information Science*, 44(4), 204-211.

(41) Tao, H., Fang, Z., & Cole, C. (1991). An introduction to reference tools for periodicals selection in the People's Republic of China. *The Serials Librarian*, 20(2/3), 107-116.

(42) Tao, H., Fang, Z., & Cole, C. (1990). Introduction to the periodicals department of the Shanghai Library, The People's Republic of China. *The Serials Librarian*, 19(1/2), 167-176.

(43) Tao, H., & Cole, C. (1990). Wade-Giles or Hanyu Pinyin: Practical issues in the transliteration of Chinese titles and proper names. *Cataloging & Classification Quarterly*, 12(2), 105-124.

(44) Tao, H., Cole, C. & Zuang, Z. (1989). A critical review of library and information science journals published in the People's Republic of China (PRC). *The Serials Librarian*, 16(3/4), 177-209.

(45) Tao, H., Zuang, Z., & Cole, C. (1989). How to acquire Chinese materials from the People's Republic of China: An easy way to solve the mystery. *Library Acquisitions: Practice & Theory*, 13(1), 11-31.