

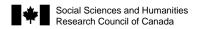
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1 4	16 979524	9								
Primary E	-mail catheri	ine.middleton@rye	rson	.ca						
Secondary	y E-mail catheri	ine@catherinemido	lleto	n.ca						

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Family name, Given name

Middleton, Catherine

Current Address Use only if you are not affiliated with a department at a Canadian university. (If you are affiliated with a department at a Canadian university, the department's mailing address will be used.) If you wish to use another address, specify it under the Correspondence Address.			Correspondence Address Complete this section if you wish your correspondence to be sent to an address other than your current address.			
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Family name, Given name
Middleton, Catherine

Research Expertise (option
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The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

#### **Areas of Research**

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

Rank	Code	Area
1	120	Communication
2	242	Information Technologies
3	290	Management

#### **Temporal Periods**

If applicable, indicate up to 2 historical periods covered by your research interests.

From	То
Year  BC AD  ———— ○ ○	Year   BC   AD

## **Geographical Regions**

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

" app.	ioabio, iriaioate	and faint up to a goographical regions covered by your recouldn't increase. Duplicate of this care not permitted.
Rank	Code	Region
1	1000	North America
2	9001	International
3		

#### Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

Rank	Code	Countries	Prov./ State
1	1100	CANADA	
2	7100	AUSTRALIA	
3			
4			
5			



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# **Curriculum Vitae**

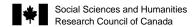
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Middleton.	Catherine

Language Proficiency										
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Work Experie			b b b	and an artist of a		-26' d -11 (				
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Current position								Start date (yyyy/mm)		
Full Professor 2011/9										
Org. code Full organization name										
1352011	Ryerson Uni	versity								
Department/Division	name									
Ted Rogers Sc	chool of Inform	mation To	echnology M	anagemer	nt					
Position type	Tenured	O No	n-tenure	Employmen	t status	Full-time	Part-tii	me		
	Tenure-track	○ No	n-academic			Non-salaried	Leave	of absence		
Position							Start date (yyyy/mm)	End date (yyyy/mm)		
Canada Resear	rch Chair						2007/7	(333))		
Org. code	Full organization	name								
1352011	Ryerson Un	iversity								
Department/Division	name									
Ted Rogers Sc	chool of Mana	gement								
Position							Start date (yyyy/mm)	End date (yyyy/mm)		
Associate Prof	essor						2004/5	2011/8		
Org. code	Full organization	name								
1352011	Ryerson Un	iversity								
Department/division	name									
Ted Rogers Sc	hool of Mana	gement								
Position							Start date (yyyy/mm)	End date (yyyy/mm)		
Assistant Profe	essor						2001/5	2004/5		
Org. code	Full organization	name								
1352011	Ryerson Un	iversity								
Department/Division	name									
School of Info	rmation Tech	nology M	Ianagement							
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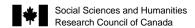
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Family name, Given name
Middleton, Catherine

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University of Toronto		
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conomics for Management Studies		
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structor	1996/5	1996/6
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University of Lethbridge		
partment/Division name		
aculty of Management		
osition	Start date (yyyy/mm)	End date (yyyy/mm)
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g. code Full organization name	1	
York University		
epartment/Division name		
chulich School of Business		

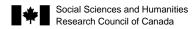




Family name, Given name
Middleton, Catherine

Work Exp	erience (cont'd)		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Consultant		1994	(),,,,,
Org. code	Full organization name	<u> </u>	L
1	Catherine Middleton Consulting		
Department/Div	rision name		
Principal			
Position		Start date	End date
Teaching A	ssistant	(yyyy/mm) 1994	(yyyy/mm) 1999
Org. code	Full organization name		
1351411	York University		
Department/Div	rision name		
Schulich Sc	chool of Business		
Position		Start date	End date
Research A	ssistant	(yyyy/mm) 1993	(yyyy/mm) 1995
Org. code	Full organization name		
1351411	York University		
Department/Div	rision name		
Schulich Sc	chool of Business		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Private sect	or employee	1992	1993
Org. code	Full organization name		
1	Village Manor Enterprises		
Department/Div			
none			
Position		Start date	End date (yyyy/mm)
Administrat	tor	1988/1	1992/12
Org. code	Full organization name		ı
9661145	Bond University		
Department/Div			
Admissions	, Humanities/Soc Sci/ Vice-Chancellor's office		





Family name, Given name
Middleton, Catherine

Academic Background							
List up to 5 degrees, beginning with the highest degree first and all others in reverse chronological order, based on the start date.							
Degree type  Doctorate	Degree name	Start date (yyyy/mm) 1993/09	Expected date (yyyy/mm)	Awarded date (yyyy/mm) 2002/06			
Disc. code	Discipline	1993/09	Did SSHRC su				
	·		you to get this				
62620	Management Information Systems		Yes	● No			
Org. code 1351411	Organization York University						
Country	<u> </u>						
CANAL		0					
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)			
Master's	MBA	1989/05		1991/12			
Disc. code	Discipline		Did SSHRC su you to get this				
62600	Management, Business, Administrative Studies		Yes	No			
Org. code	Organization						
9661145	Bond University						
Country AUSTR	ALIA						
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)			
BA Hon.		1982/09	(3333/11111)	1987/06			
Disc. code	Discipline			Did SSHRC support enable you to get this degree?			
61000	Economics		Yes	No			
Org. code	Organization						
1350811	Queen's University						
CANAD CANAD	OA .						
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)			
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Degree type	Degree name	Start date	Expected date	Awarded date			
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Disc. code	Discipline		Did SSHRC su you to get this				
			Yes	∩ No			
Org. code	Organization		<u> </u>	<u> </u>			
Country							

Canada CV



Family name, Given name
Middleton, Catherine

#### **Credentials**

List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

Category	Name	Source or Country	Duration	Value / Year
,		,	(Months)	awarded
Academic Prize	Ryerson Research Award	CANADA		
				2010
Academic Prize	Stafford Beer Medal,	UNITED KINGDOM		
	Operational Research Society			2007
Fellowship	Statistics Canada Fellowship	CANADA		
				2007
Academic Prize	Ryerson Research Award	CANADA		
				2005
Academic Prize	Best Paper in Australian	AUSTRALIA		
	Computer Society Journal			2003
Academic Prize	Nominated for York U	CANADA		
	dissertation prize			2002

## **Research Expertise**

The information provided in this section refers to your own research expertise, not to a research proposal.

#### **Keywords**

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

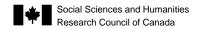
wireless and mobile internet access; next generation broadband infrastructures; broadband and ICT policy; consumer usage of internet; digital divide

#### **Disciplines**

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

Rank	Code	Discipline	If Other, specify
1	50606	Communication Technology, Informatics	
2	50608	Communications Policy	
3	62620	Management Information Systems	
4			
5			

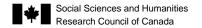
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Middleton, Catherine	

Funded Research					
List up to 8 grants or contracts you have received from SSHRC or other sources. List them in reverse chronological order, based on the year awarded. If you are not the applicant (principal investigator), specify that persons' name.					
Org. code	Full name of funding organization			Total amount (CAN\$)	
3010325	Social Sciences and Humanities R	Research Council of Canada	2012	\$154,325	
Role	Co-applicant		Completion statu	us Complete	
Project title	A Critical Communication Analysi	is of the 700 MHz Spectrum A	Auction		
Applicant's f	amily name	Applicant's given name		Initials	
Taylor		Gregory			
Org. code	Full name of funding organization		Year awarded	Total amount	
2010515	Canadian Institutes of Health Rese	earch	(yyyy) 2012	(CAN\$)	
3010747			2012	\$407,253	
Role	Co-applicant		Completion statu	us Complete	
Project title	South Asian HeArt Risk Assessme	ent (SAHARA)			
Applicant's f	amily name	Applicant's given name		Initials	
Anand		Sonia			
Org. code Full name of funding organization Y				Total amount	
Social Sciences and Humanities Re		Research Council of Canada	(уууу)	(CAN\$)	
3010325			2010 \$78,995		
Role	Applicant		Completion statu	us Complete	
Project title Next Generation Broadband Networks in Canada: An Investigation of Infrastructure Policy, Supply and Use					
Applicant's family name Appli		Applicant's given name		Initials	
•					
Org. code Full name of funding organization  Social Sciences and Humanities Research Council of Canada		assauch Council of Canada	Year awarded (yyyy)	Total amount (CAN\$)	
3010325 Social Sciences and Humanities Research Council of Canada			2009 \$70,000		
Role Applicant			Completion status X Complete		
Project title Developing Next Generation Broadband Infrastructure: Learning from Australia's National Broadband Network					
Applicant's family name		Applicant's given name		Initials	





Family name, Given name	
Middleton, Catherine	

Funded Research (cont'd)						
Org. code	Full name of funding organization  Networks of Centres of Excellence		Year awarded (yyyy)	Total amount (CAN\$)		
1	TYCEWORKS OF CONTICS OF EXCENCING		2009	\$23	3,250,000	
Role	Co-applicant		Completion statu	ıs 🔲	Complete	
Project title	Graphics, Animation and New Me	dia Canada				
Applicant's f	amily name	Applicant's given name			Initials	
Booth		Kellogg				
Org. code	Full name of funding organization		Year awarded (yyyy)	To	otal amount (CAN\$)	
3010325	Social Sciences and Humanities R	Research Council of Canada	2008	\$	195,400	
Role	Applicant		Completion statu		Complete	
Project title	Ubiquitous Communication Techn	nologies in Organizations: Dia			•	
·	Developing Solutions for an 'Alwa	0	<b>5.1</b> 00 <b>111</b> 00	101115	unu	
Applicant's f	amily name	Applicant's given name	ame		Initials	
Org. code	Full name of funding organization		Year awarded (yyyy)	To	otal amount (CAN\$)	
1	Infrastructure Canada		2006	\$	221,835	
Role	Applicant		Completion status X Complete			
Project title	ICT Infrastructure as Public Infras	tructure				
Applicant's family name		Applicant's given name			Initials	
Org. code	Full name of funding organization		Year awarded	To	otal amount	
3010325	Social Sciences and Humanities Research Council of Canada		(yyyy) 2002	, ,		
			2003 \$122,000			
Project title	Applicant  How Will Canadian Consumers P.	anofit from Access to Droadh	Completion statu		Complete	
How Will Canadian Consumers Benefit from Access to Broadband Networks? An Investigation of Broadband Demand, Usage, Supply and Policy in Canada						
Applicant's family name		Applicant's given name			Initials	



## 1. Research Contributions Over the Last Six Years (2007-2013)

#### Refereed contributions

#### Edited Book

Barrett, M., Davidson, E., Middleton, C., & DeGross, J. (Eds.). (2008). *Information Technology in the Service Economy: Challenges and Possibilities for the 21st Century* (Vol. 267). Boston: Springer. I was responsible for liaison between the publisher, editors and copy editor.

## **Book Chapters**

- \* Middleton, C. (2011). From Canada 2.0 to a Digital Nation: The Challenge of Creating a Digital Society in Canada. In M. Moll & L. R. Shade (Eds.), *The Internet Tree* (pp. 3-16). Ottawa: Canadian Centre for Policy Alternatives.
- \* Middleton, C. (2011). Structural and Functional Separation in Broadband Networks: An Insufficient Remedy to Competitive Woes in the Canadian Broadband Market. In M. Moll & L. R. Shade (Eds.), *The Internet Tree* (pp. 61-72). Ottawa: Canadian Centre for Policy Alternatives.
- \* Middleton, C. (2008) "Do Mobile Technologies Enable Work-Life Balance? Dual Perspectives on BlackBerry Usage for Supplemental Work." in D. Hislop (Ed.) *Mobile Technologies and Work*, pp. 209-224. London: Routledge.
- \* Middleton, C., & Chang, S. (2008). "The Adoption of Broadband Internet in Australia and Canada." in Y. K. Dwivedi, A. Papazafeiropoulou, & J. Choudrie (Eds.), *Handbook of Research on Global Diffusion of Broadband Data Transmission*, Harrisburg, PA: IGI Global. pp. 820-842. I was the primary author on the paper, responsible for analysis of the Canadian data, and comparison of the Canadian and Australian broadband markets.
- \* Middleton, C. (2008) "Understanding the BlackBerry as an Instrument of Organizational Culture." in G. Goggin (Ed.) *Mobile Phone Culture*, London: Routledge. pp. 28-41.

## Journal Articles

- \* Middleton, C, Park, S., Allen, M. (in press). "Converging on an NBN Future: Content, Connectivity, and Control A Symposium Overview" *Telecommunications Journal of Australia Quarterly*, (63:1), pp. 8.1-8.12.
- \* Crowe, R., & Middleton, C. (2012). Women, Smartphones and the Workplace: Pragmatic Realities and Performative Identities. *Feminist Media Studies*, (12:4), 560-569. Crowe wrote the first draft of the paper and I handled revisions.
  - Middleton, C. & Bryne, A. (2011). "An Exploration of User-Generated Wireless Broadband Infrastructures in Digital Cities." *Telematics & Informatics*. (28:3). pp. 163-175. doi: 10.1016/j.tele.2010.08.003. I wrote this paper, with research assistance from Bryne.
- \* Middleton, C. & Given, J. (2011). "The Next Broadband Challenge: Wireless." *Journal of Information Policy*. (1:1). pp. 36-56. I wrote this paper based on a collaboration with Given.
- Middleton, C. (2010). "Delivering Services over Next Generation Broadband Networks:

  Exploring Devices, Applications and Networks." *Telecommunications Journal of Australia*. (60:4). pp. 59.1-59.13.
- van Gorp, A. & Middleton, C. (2010). "Fiber to the Home Unbundling and Retail Competition: Developments in the Netherlands." *Communications & Strategies*. (78). pp. 87-106. As second author, I framed the international context for this research.
  - Biggar, J., & Middleton, C. (2010). Broadband and Network Environmentalism: The Case of One Million Acts of Green. *Telecommunications Journal of Australia*. (60:1). pp. 9.1-9.17. This

- was Biggar's first publication. I assisted in framing the central ideas, and in guiding Jeff through the review process.
- van Gorp, A. & Middleton, C. (2010). The Impact of Facilities and Service-Based Competition on Internet Services Provision in the Canadian Broadband Market. *Telematics and Informatics*. (27:3). pp. 217-230. van Gorp outlined our primary arguments around competition and I developed the Canadian context for this research.
- Middleton, C. (2009). "Can Broadband Support Environmental Sustainability? An Exploration of Claims at the Household Level." *Telecommunications Journal of Australia*. (59:1). pp. 10.1 10.14.
- Cukier, W., Bauer, R., Ngwenyama, O. & Middleton, C. (2009) "A Critical Analysis of Media Discourse on Information Technology." *Information Systems Journal*. (19). pp. 175-196. I contributed to clarifying the arguments in the paper and assisted with revisions.
- Potter, A. B., McIntyre, N., & Middleton, C. (2008). "How Usable Are Outdoor Wireless Networks?" *Canadian Journal of Communication*. (33:3). pp. 511-524. I directed data collection, and revised the paper for publication.
- Middleton, C. & Crow, B. (2008). "Municipal and Community Wi-Fi Networks in Canada: Insights from Three Canadian Case Studies." *Canadian Journal of Communication*. (33:3). pp. 419-441. I developed the analytical framework for the paper and took primary responsibility for revisions.
- \* Middleton, C. (2007) "Understanding the BlackBerry as an Instrument of Organizational Culture." *Continuum: Journal of Media and Cultural Studies*. (21:2). pp. 165-178. (Reprinted in *Mobile Phone Culture*.)

## Other refereed contributions

- Middleton. C. A., Veenhof, B. & Leith, J. (2010). *Intensity of Internet Use in Canada: Understanding Different Types of Users*. Ottawa: Statistics Canada. Catalogue no. 88F0006XIE2010002. I developed the conceptual frame for this paper, and did about 50% of the data analysis and writing.
- Sullivan, J., Scheepers, R., & Middleton, C. (2009). *Conceptualizing User Satisfaction in the Ubiquitous Computing Era*. Proceedings of the International Conference on Information Systems (ICIS), Phoenix, AZ. I assisted in developing the arguments in the paper.
- \* Middleton, C. & Ellison, J. (2008). *Understanding Internet Usage Among Broadband Households: A Study of Household Internet Use Survey Data*. Ottawa: Statistics Canada. Catalogue no. 88F0006X, no. 3. I wrote and revised the paper, Jonathan Ellison provided assistance with data access and analysis.

## Non-refereed contributions (selected)

- \* Middleton, C. (2013). Competing Visions of Next Generation Broadband: Insights from Australia's NBN. *Intermedia*, 41(2), 12-16.
- \* Middleton, C., Shepherd, T., Shade, L. R., Sawchuk, K. & Crow, B. (2012). *Intervention Regarding the Consultation on Proceeding to establish a mandatory code for mobile wireless services: Telecom Notice of Consultation CRTC 2012-557, 11 October 2012 and CRTC 2012-557-1, 1 November 2012.* 
  - Middleton, C. (2012). *Broadband Universalization: Connecting Canadians*. Brasil-Canada 3.0 Conference. João Pessoa, Brazil. *Invited talk*.
- \* Taylor, G. & Middleton, C. (2012). Response to Consultation on a Licensing Framework for Broadband Radio Service (BRS) 2500 MHz Band. Canada Gazette DGSO-004-12.

- \* Taylor, G. & Middleton, C. (2012). Response to Consultation on a Licensing Framework for Mobile Broadband Services (MBS) 700 MHz Band. Canada Gazette DGSO-002-12.
- \* Middleton, C. (2012). Broadband as Infrastructure. *Competition and Regulation Times*, 38, pp. 10-11.
- \* Middleton, C. (2012). A Comparison of National Broadband Strategies in Developed and Developing Countries: Perspectives, Challenges and Lessons. *Panelist at the Telecommunications Policy Research Conference*. Arlington, DC.
- \* Cukier, W. & Middleton, C. (2012). Assessing the Impact of Universities in the Ecosystem: Incubators, Accelerators and the Culture of Innovation. Report for the SSHRC Knowledge Synthesis Initiative on Leveraging Public Investments in Higher Education R&D to Stimulate Innovation.
- \* Middleton, C. (2011). Final Arguments Regarding Telecom Notice of Consultation CRTC 2011-77: Review of billing practices for wholesale residential high-speed access services.
- \* Taylor, G. & Middleton, C. (2011). Response to Broadcasting and Telecom Notice of Consultation CRTC 2011-344: Fact-Finding Exercise on the Over-The-Top Programming Services in the Canadian Broadcasting System.
- \* Taylor, G. & Middleton, C. (2011). Response to Industry Canada Consultation on a Policy and Technical Framework for the 700 MHz Band and Aspects Related to Commercial Mobile Spectrum Canada Gazette Notice No. SMSE-018-10.
- \* Middleton, C. (2010). Broadband Isn't Enough: International Perspectives on Leveraging Broadband for Social Benefit. *Keynote address to the CSIRO Broadband for Society Summit.* Hobart, Australia.
- \* Middleton, C. (2010). From Canada 2.0 to a Digital Nation. *Big Thinking Lecture Series*. Ottawa. Middleton, C. (2009). Developing Municipal Wireless Infrastructure. *Public Sector Digest*. Middleton, C. (2008). *Information and Communication Technology (ICT) Infrastructure as Public Infrastructure: Final Report of the Community Wireless Infrastructure Research Project*. Toronto: Ryerson University.
  - Middleton, C., (2007). A Framework for Investigating the Value of Public Wireless Networks. *Telecommunication Policy Research Conference*. (Abstract was refereed, full paper is available in the online conference proceedings.)
- \* Middleton, C. (2007). Beyond Access: Engaging Citizens in the Information Society. Invited speech. Expert Policy Forum on Building Capacity: Tackling Ontario's Digital Challenge.
  - Middleton, C. (2007). *Understanding the Benefits of Broadband: Insights for a Broadband Enabled Ontario*. Report for the Ministry of Government Services

## Forthcoming contributions

- \* Middleton, C. (in press) "Beyond Broadband Access: What Do We Need to Measure, and How Do We Measure It?" in Napoli, P (Ed). *Beyond Broadband: Developing Data-Based Information Policy Strategies*. Fordham University Press. (to be published Spring 2013)
- \* Scheepers, R. & Middleton, C. (in press). Personal ICTs and Ubiquitous Information Systems Environments: Key Issues and Research Implications. *Communications of the AIS*.
- \* Rajabiun, R. & Middleton, C. (in press). Multilevel Governance and Broadband Infrastructure Development: Evidence from Canada. *Telecommunications Policy*.
- \* May, S. J. & Middleton, C. (in press). The Other Mobile TV: ATSC MDTV Broadcasting In Canada. *Canadian Journal of Communication*.

#### 2. Other Research Contributions

Converging on an NBN Future: Content, Connectivity, and Control. Canberra, Australia 2012. Organizer and presenter at this industry/government/academia symposium on Australia's National Broadband Network infrastructure development project.

*Taking Ontario Mobile*. Collaborator/subject matter expert on \$248,600 Grant in Support of Science and Research. Project for the Ontario Ministry of Research & Innovation, led by OCAD University. 2011-2012

Broadband Strategic Research and Impact Analysis: Development of a Partnership and Evaluation Framework for Assessing the Social and Economic Impacts of Provincial Broadband Investments. Collaborator/subject matter expert on project for the Government of Ontario, led by the Monieson Centre at Queen's University. March - August 2011.

## 3. Most Significant Career Research Contributions

My research focuses on the ways that Canadians engage with the digital economy, and on the ways in which digital infrastructures are provided in Canada and internationally. I also have done substantial work looking at innovation and adoption of information and communication technologies by Canadian business, especially SMEs, an area I am now building on through my work with the Mobile Experience Innovation Centre's research advisory board.

My work provides academics, students and policy makers a broad understanding of current uses of fixed and mobile broadband technologies and of the policy environment shaping the development of infrastructure that enables connectivity and fosters digital engagement and citizenship. For the purposes of the GRAND LOI process I have not specifically identified 5 significant works, but note that all the research cited above has shaped my thinking about the information society and demonstrates my deep knowledge of Canada's digital economy (a SSHRC priority area). My body of work also reflects a variety of publication outlets, showing my ability to write for specialist and non-specialist audiences.

## 4. Career Interruptions and Special Circumstances - None.

## 5. Contributions to Training

- MA in Communication and Culture (Joint Ryerson-York program)
  - o Supervised 6 MA theses and 9 major research papers (MRPs), committee member on an additional 6 theses (all completed). Current supervisor for 1 MRP.
- MBA in the Management of Technology and Innovation (Ted Rogers School of Management)
  - o Supervised 11 MRPs (completed).
- Master of Management Science (Ted Rogers School of Management)
  - o Committee member on 2 theses (completed)
- PhD student supervision: 1 PhD student completed (co-supervisor). Currently supervising 1 student. and committee member for another 3.
- Postdoctoral fellows: Currently supervising 3 postdoctoral fellows.

### Student Involvement in Research Activities

Wherever possible, I hire my graduate students as research assistants on funded projects. For instance, the Community Wireless Infrastructure Research Project (I was the PI) trained eight students (undergrad, masters and PhD) from four institutions. I mentor students at all levels in data collection, analysis, and dissemination, and work with PhDs and postdocs to secure additional grant funding.