Queen's Research Data Centre (QRDC) Annual Review Report

January 1 to December 31

2016

Date Submitted: June 5, 2017

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Executive Summary

Funding & Governance of the Network

2016 was a very eventful year for the CRDCN, with renewal of SSHRC and CIHR funding that will underpin operation of the Network, and the Queen's RDC, for the next 5 years. In addition, the Network received 5-year CFI Major Scientific Initiative (MSI) funding aimed at supporting operation of individual RDCs. With this renewed and new influx of funding, however, came requirements for more accountability and improved governance of the Network. To that end, the CRDCN now has a new governance structure with a newly minted Inaugural Board intended to ensure due diligence, to provide wise counsel and oversight for the Network, and to meet the requirements of Tri-agency and CFI oversight committees. In addition to the new governance structure, these requirements include more stringent reporting to the funding agencies – resulting in major changes to the content and structure of this year's Annual Report. As a consequence, direct comparisons with previous reports may prove challenging.

Staffing

Overall, changes in governance structure and reporting had no immediate impact on the Queen's RDC (QRDC) in 2016, and the Centre continued to operate normally with one half-time Analyst (18.75 hours per week) and two as-needed Statistical Assistants working about 4.5 hours per week. Specifically, from January to September 2016, the then interim Statistical Analyst worked 15 hours per week (due to contract limitations for 'interim' positions), with Statistical Assistants making up the difference. Once confirmed in the position, the Analyst was able to work 18.75 hours per week for the balance of the year (October to December).

QRDC Advisory Committee

The QRDC Advisory Committee welcomed two new members in 2016 -- John Fisher (Associate VP Research) and Marta Strasnicky (Associate Dean, Graduate Studies). Stepping down from these positions (*respectively*) were Yolande Chan and Sandra den Otter – we certainly appreciate their contributions to the Committee.

QRDC Web Page

As mentioned in last year's Annual Report, ORION (Ontario Research and Innovation Optical Network) stopped providing support for web-hosting services as of 31 August, 2016. We were faced with the prospect of migrating the QRDC website with short notice and no clear alternative in place. Fortunately, Igloo, the former web-hosting provider to ORION, was willing to continue to host QRDC web pages for free – independent of ORION support. This gives us the time to consider other web-hosting options. At this time, the most likely contender is the Library's Drupal content management system.

QRDC Teaching and Outreach

The QRDC Academic Director was on sabbatical for all of 2016, limiting opportunities to promote the QRDC in teaching/seminar/reference situations as would normally be the case.

Fingerprinting & Credit Checks

Effective December 1, 2016, two new security measures came into effect for RDC researchers. First, the RCMP now requires all federal public servants in Canada to be fingerprinted as part of their security clearance. Second, the Treasury Board of Canada now requires all federal public servants to undergo a credit check. RDC researchers, who are considered deemed employees under the Statistics Act, are subject to these measures which apply to all new researchers and those renewing their security clearance.

As indicated in previous reports, this major change in access policy presents significant challenges as we try to encourage and grow use of the QRDC. Consultations with Queen's University Library and the QRDC Advisory Committee prompted development of local policies to help mitigate the impact of these measures on researchers. These were fully developed and implemented in 2017.

No new or renewing researchers were affected by these measures in 2016, given the short time these policies were in place in this reporting year.

Section One: RDC Information

a) QRDC Contact Information

Queen's Research Data Centre
Room 007, Stauffer Library
Queen's University, 101 Union Street
Kingston, ON, K7L 3N6
Phone: (613) 533-6224
Website: https://queensrdc.othree.ca/
Email: qrdc@queensu.ca

b) RDC Staff

Table 1b: QRDC Staff

Name	Position	Contact Information	FTE (Students)	FTE (Non-students)
Dong Shen	STC RDC Analyst	qrdc@queensu.ca; 613-533-6224		0.5
Jing (Jean) Liang & Zhe Yang	Statistical Assistants	qrdc.assistant@queensu.ca	0.15	
Jeff Moon	Academic Director	moonj@queensu.ca 613-533-6000 x77992		0.15
Martha Whitehead; Nancy Petri; Emily Xu; Alex Cooper	Administrative Staff	martha.whitehead@queensu.ca; petrin@queensu.ca; Emily.xu@queensu.ca; coopera@queensu.ca		0.254
Sean Allen; Shea Donoghue		sallen@queensu.ca; shea.donoghue@queensu.ca		varies

c) Advisory Committee

Table 1c: QRDC Advisory Committee Members

Name	Department	Position
Christopher Ferrall	Queen's Economics	Professor
Marta Strasnicky	English	Associate Dean, Graduate Studies
Bo Wandschneider	ITServices	Associate VP Information Technology and CIO
Martha Whitehead	Library	University Librarian
Jeff Moon	Library	Academic Director, Data Librarian
Ian Michael Janssen	School of Kinesiology and Health Studies Department of Community Health and Epidemiology	Professor
John Fisher	Associate VP Research	Associate VP Research
Dong Shen	Economics	Statistics Canada Analyst (Interim)
Jean-Etienne de Bettignies	Business	Professor
Karina McInnis	University Research Services	Executive Director
Kamin Peyrow	Economics	Graduate Student

d)   RDC Partnerships and Branches

N/A

e)   Operation of the RDC

The Centre is open 18.75 hours per week

10:00 AM until 4:45 PM, Tuesday – Wednesday – Thursday

Closed for lunch 12:45 – 1:15 PM

14 workstations are available to researchers

NOTE: QRDC hours were extended in late summer 2016 to provide additional support for researchers.

14 workstations are available to researchers.

f)   Square Footage

The QRDC occupies **918.41** square feet.

Section Two: QRDC Activities

Table 2a: Projects Started, Withdrawn and Ended			
	Projects Started	**Projects Withdrawn**	**Projects Ended**
2016	**17**	**0**	**17**

Source: Statistics Canada RDC Program Manager's Report, Table 9.
Note: Table 9 of PMR does _not_ provide this information for the QRDC. Instead, I used **Table 2a** CRDCN Survey information provided via email by Dave Haans on June 1, 2017.

Table 2b: Summary of Activity in 2016			
Rating	**Output**	**Un-weighted Total**	**Weighted Total**
0.5	Completed Projects	17	8.5
2	Books		
1	Edited Books		
1	Book Chapters		
1.5	Refereed Articles	4	6
0.5	Working Papers	2	1
1	Policy Reports		
2	PhD Theses	5	10
1	MA Theses	2	2
0.5	Undergrad Theses		
2	Full Year Course (6 credits)		
1	Semester Course (3 credits)		
0.5	RDC Data in Conference Presentations or invited talks (same presentations may be counted only once)	12	6
2	CRDCN Annual Conference Organization		
0.5 - 1	Organize Conference Sessions, Workshops, Symposia		
	Total	**42**	**33.5**

Source: CRDCN Researchers Survey (Completed Projects), CRDCN Bibliography (Books to Undergrad Theses), RDC (Courses, Conferences and Workshops)

Table 2c: Average Monthly Research Activity in 2016			
	Contracts	**Raw Dyads**	**Adjusted Dyads**
QRDC	19.8	56.1	108.0

Source: Statistics Canada RDC Program Manager's Report, Table 1

Box 2d: Summary of Substantive Comments on Publications

None to report.

Box 2e: Summary of Major Media Coverage of Research

None to report.

Table 2f: Focus of Research, 2012-2016		
Focus	**Number of Projects**	**% of Total**
Aging	1	2
Education	10	20
Family and Children	4	8
Financial Security		
Health	16	32
Immigration	3	6
Labour Force	8	16
Other	8	16
Total Number of Projects	**50**	**100**

Source: CRDCN Researchers Survey. Please use "Table 2f – Focus of Research" to populate this table, and "Table 2f – Other Foci of Research" to note any other oft-mentioned foci of research.

Other foci include: Urban Economics, Productivity, Internet Access, Regional Growth, and Innovation.

Table 2g: Status of Projects in Survey, 2012-2016	
Status	**Number of Projects**
1. Project ongoing, more output possible	27
2. Project ongoing, no more output expected	1
3. Project complete, further output possible	15
4. Project complete, no more output expected	65

Source: CRDCN Researchers Survey

Section Three: RDC Knowledge Mobilization Activities

Table 3a: Teaching and Training Activities in 2016		
Courses or Training sessions	**Number**	**Approximate number of participants**
Summer school (1 or 2 week sessions)		
Training sessions or Workshops (1 or 2 days)		
Data seminars		
RDC promotion		
Full year graduate or undergraduate course (6 credits)		
Semester graduate or undergraduate course (3 credits)		
Other, specify _____		
Total	**0**	**0**

Source: RDC

Note: There were no formal teaching and/or training sessions in 2016. The Academic Director was on sabbatical and no courses were offered. Informal introductions to the QRDC were conducted for individual researchers seeking information about using the QRDC.

Table 3b: QRDC Outreach in 2016	
RDC–based publications (e.g. newsletters, working papers, research summaries or highlights, synthesis reports)	
Training sessions and research seminars or conference hosted by the RDC (e.g. workshops, brown bag luncheons, symposia)	
RDC-related outreach activities (e.g. meetings with public officials and other stakeholders)	
RDC-related media mentions	
RDC website (e.g. number of visitors)	Not available for 2016 due to change in website provision.
Other (e.g. blogs, tweets. Please specify)	

Source: RDC

Box 3c: Substantive Comments and Summary of Knowledge Mobilization

Projects undertaken in the Queen's RDC analyzed data related to the economy, business, socio-economic issues, and health. Outputs from these projects will increase understanding of these topics and potentially inform policy-making.

Source: RDC

Box 3d: Vignette

A LOOK IN TO THE RELATIONSHIP BETWEEN AVERAGE PROVINCIAL UNIVERSITY ATTRIBUTES AND THE EARNINGS OF YOUNG GADUATES:
PANEL DATA EVIDENCE FROM THREE CANADIAN CYCLES

This essay examines the relationship between university quality and future bachelor degree graduate earnings. It uses three main quality measures including student-professor ratio, median professor salaries (full, associate, and assistant), and tuition fees. These measures are provincial averages taken over relevant years. For this study the National Graduate Survey data from Statistics Canada was used and merged with other Statistics Canada data on universities. Some of the results found differed slightly from other studies in this area and warrant further study.

Source: RDC

Section Four: QRDC Researchers

Table 4a: Student Training and Employment in 2016				
	Number of Students	**Number of Students Using RDC Data in Their Thesis**	**Number of Students Employed on One or More Projects**	**Theses Completed in 2016**
Undergraduate	0	0	0	0
Masters	5	5	0	0
Doctoral	12	6	0	0

Source: CRDCN Researchers Survey (Columns 1 to 3), CRDCN Bibliography / Section Seven of the Annual Report (These Completed)

Table 4b: Researcher Employment Status in 2016	
Position/Role	**Number of Researchers**
Adjunct professor	1
Assistant professor	11
Associate professor	11
Federal government researcher	2
Full professor	16
Independent or other researcher	5
Masters student	5
PhD student	12

Source: CRDCN Researchers Survey

Table 4c: All Researcher Disciplines in 2016

Academic Discipline	Number of Researchers
Economics	41
Geography / Urbanism	3
Industrial Relations / Management	9
Information Technology / Applied Sciences	1
Other Health Sciences	3
Public Health / Epidemiology	4

Source: CRDCN Researchers Survey

Table 4d: Student Researcher Disciplines in 2016

Academic Discipline	Number of Students
Economics	12
Geography / Urbanism	1
Industrial Relations / Management	1
Public Health / Epidemiology	3

Source: CRDCN Researchers Survey

Table 4e: Government Agency Partnerships in 2016

Government Agency	Number of Researchers
N/A	

Source: CRDCN Researchers Survey

Table 4f: Research Network Involvement in 2016

Research Network	Number of Researchers
N/A	

Source: CRDCN Researchers Survey

Table 4g: Collaboration, Funding and Partnerships in 2016		
	Number of Projects	
	Yes	**No**
Collaborated with NGOs	0	10
Research Chair Holder	3	6
Received Government Funding	5	6
Received University Funding	6	5

Source: CRDCN Researchers Survey

Table 4h: Collaboration with NGOs in 2016	
NGO	**Number of Projects**
n/a	

Source: CRDCN Researchers Survey

Note: No collaboration with NGOs reported in 2016

Table 4i: Research Chairs in 2016	
Research Chair	**Number of Projects**
Atif Kukaswadia (Canada Research Chair in Physical Activity and Obesity)	1
Arlanna Pugh (Canada Research Chair (Dr. Castleden) in Reconciling Relations for Health, Environments, and Communities)	1
Nicole Haywood (Canada Research Chair in Development Studies)	1

Source: CRDCN Researchers Survey

Table 4j: Non-Government, Non-University Funding Agencies in 2016	
Funding Agency	**Number of Projects**
SSHRC (Social Sciences and Humanities Research Council)	1
CIHR (Canadian Institutes of Health Research)	1

Source: CRDCN Researchers Survey
NOTE: From CRDCN Researcher Survey results… though it is odd that these are NOT non-governmental funding agencies.

Table 4j: Software Use, 2015-2016

Software use by the 40 projects answering the Software Section of the survey

Software Name	Number of Projects	Percentage
STATA	35	87.5
Microsoft Office	27	67.5
MiKTeX	16	40
Adobe Acrobat Reader and Pro	9	22.5
SAS	5	12.5
7zip	4	10
MATLAB	3	7.5
ArcGIS	2	5
Internet Explorer	2	5
Notepad++	2	5
SPSS	2	5
Stat/Transfer	2	5
TEXnic Center	2	5
WinZip	2	5
Beyond 20/20	1	2.5
GAUSS	1	2.5
Mplus	1	2.5
PDFCreator	1	2.5
SLIDRet	1	2.5

Source: CRDCN Researchers Survey

Note: Researchers could choose more than one software package, so percentages do not add up to 100%.

Section Five: Achievements, Challenges and Objectives

Box 5a: Summary of Major Achievements and Challenges in the Past Year

Achievements
- Statistical Analyst position confirmed (from interim status)
- Renewed membership of the QRDC Advisory Committee (2 new members)
- Contributed to major funding applications submitted by CRDCN (SSHRC/CIHR, CFI-MSI)
- Initiated development of local policies to address new security requirements (fingerprinting/credit checks)

Challenges
- Continued to work with QUL to manage Network and local funding to ensure ongoing operation of the QRDC and the broader network.
- Continued to work with Statistics Canada managers to evaluate activity levels in the QRDC and to address staffing needs appropriately.
- To that end, worked to meet needs of researchers and demands on the Statistical Analyst by extending hours on an *ad hoc* basis to meet vetting/access demands.
- Cooperated with CRDCN, QUL, and Queen's Office of the Controller in solving problems (minor) with accounting forms for the CIHR and SSHRC grants.
- There were a myriad of problems/challenges associated with the 2016 Annual Report process, driven in large part by new reporting requirements for the CRDCN. Problems included:
  - The 2016 Annual Report process was extremely challenging – in large part due to innumerable 'new' Annual Report templates foisted upon us throughout the process, with the last template delivered on June 1st, the day *after* the report was originally due for submission. We are all busy people with full schedules; this year, RDCs were obliged to spend an inordinate amount of time checking, rechecking, and checking again the results we were supposed to report back to the CRDCN. This is unacceptable, and needs to be addressed.
  - While the CRDCN Researcher Survey went well, there were numerous changes in tables and table content over time that made knowing exactly what to report very difficult. Great efforts of the survey administrator aside, the reporting process was a moving target that left us frustrated and, frankly, less than confident in what we ultimately reported. Given that metrics provided in the Annual Report are tied directly to funding, this is very troublesome.

Box 5b: Summary of Major Challenges and Objectives in the Next Year

Challenges
- Evaluating and communicating QRDC activity levels and related staffing/budgetary implications.
- Balancing current demand for better/faster software/hardware with the potential that the CRDCN (including the QRDC) will be moving to a new thin-client environment (dependent on new funding) that will render investments in better/faster local hardware/software obsolete. In an ironic twist, recent investments in more powerful software (e.g. Matlab add-ons[1]) may be driving demand for faster hardware.
- Contribute to new granting applications (e.g. CFI IF Cyberinfrastructure Grant) in support of CRDCN activities.

Objectives
- Implement new security measures and local policies (i.e. QUL paying for third-party fingerprinting) and monitor impacts on QRDC researchers.
- Contribute to CARL (Canadian Association of Research Libraries) lobbying efforts to have security measures changed to better 'fit' the reality of RDC researchers (i.e. change implications of 'deemed employee' status).
- Work with Statistics Canada and Statistical Analyst to monitor and address QRDC hours of operation and associated budgetary implications.
- Monitor and address changes that may arise if the CRDCN receives CFI funding to build a thin-client system for the Network and/or improved metadata for discovery and exploration of data.
- Work with CRDCN to improve communication and streamline workflow associated with reporting and writing RDC Annual Reports.
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[1] A variety of software renewals were dealt with, including the purchase of a new license for MatLab, including two statistical 'toolboxes' -- Global Optimization Toolbox (GDALL) and Optimization Toolbox (OPALL).

Section Six: RDC Operating Budget – Revenue and Expenses Report for the Fiscal Year

Table 6a: QRDC Operating Budget - Revenue 2016-2017	
Source	**[Amount]**
University	$ 68,376.38
SSHRC	$ 48,503.00
CIHR	$ 48,503.00
CFI	
Other-RDC-NCC	
HRSDC	
Fee for Service	
Other, specify	
Total Revenue	$ 165,382.38

Source: RDC. Please enter amounts for the fiscal year (April 1 – March 31)

Table 6b: QRDC Operating Budget – Expenses

2016-2017	AMOUNT		
	In Cash	**In Kind**	**Total**
Statistics Canada Services	$ 62,538.13		$ 62,538.13
Director Buy-Out of Time and Responsibilities		$ 25,943.22	$ 25,943.22
Secretarial and Administrative Staff		$ 18,503.76	$ 18,503.76
Translation Services			$ -
Student Support for Longer Opening Hours			$ -
Statistical and Methodological Services			$ -
Supplies, Telephone, Security	$ 735.00		$ 735.00
Computer Software, Supplies and Licenses	$ 7,311.00		$ 7,311.00
Computer Assistance (Queen's ITServices)		$ 8,500.00	$ 8,500.00
Computer Depreciation and Replacement			$ -
Local Governance, Conference, Receptions			$ -
Workshops, Courses, Training			$ -
Travel (not Directors or training)	$ 6,314.00		$ 6,314.00
Fellowship, Incentives Grants			$ -
Dissemination (Website, Promotion of RDC)		$ 1,069.41	$ 1,069.41
Branch RDC's Annual Costs			$ -
Other			$ -
Total	$ 76,898.13	$ 54,016.39	$ 130,914.52

Source: RDC. Please enter amounts for the fiscal year (April 1 – March 31)

Table 6c: QRDC Operating Budget - Summary of Contributions 2016-2017		
Source of funds		**Percentage of Contribution**
Queen's University		
	Cash Contributions – Operating	10.97%
	In-kind Contributions	41.26%
	Total for university	**52.23%**
SSHRC/CIHR – Grant		**47.77%**
Other (please list)		-
Total:		**100.00%**

Source: RDC. Please enter amounts for the fiscal year (April 1 – March 31)

Section Seven: Complete List of RDC Output

Source: The CRDCN bibliography for the Annual Report year

2016 Publications, Conference Presentations and Media Mentions for: QUE

Refereed Articles

1. Alan G. Green and David A. Green (2016) Immigration and the Canadian earnings distribution in the first half of the twentieth century *Journal of Economic History*, *76*(2), 387 - 426. (Project: 14-SSH-QUE-2434-R001 / RDC(s): QUE BCI)

2. Matthew D. Webb and Arthur Sweetman and Casey Warman (2016) Targeting tax relief at youth employment *Canadian Public Policy*, *42*(4), 415 - 430. (Project: 16-SSH-QUE-2141-R002 / RDC(s): COOL QUE)

Conference Presentations Using RDC Data

1. Conference Type: Talks or papers at academic conferences. Conference reference: Matthew D Webb, 21JUN2016. Finish It and It's Free: An Evaluation of College Graduation Subsidies: Eighth International Workshop on Applied Economics of Education. Catanzaro, Italy. (Project: 12-SSH-QUE-3274 / RDC(s): QUE)

2. Conference Type: Talks or papers at academic conferences. Conference reference: Erica Carleton, 05AUG2016. Reciprocal Effects of Work Stress and Sleep Problems: A Five-Wave Longitudinal Study: Academy of Management. Anaheim, California. (Project: 13-SSH-QUE-3477 / RDC(s): QUE)

3. Conference Type: Talks or papers at academic conferences. Conference reference: Erica Carleton, 11APR2016. The Cyclical Nature of Workplace Injuries, Alcohol Use and Employee Mental Health: European Association of Occupational Health Psychology. Athens, Greece. (Project: 13-SSH-QUE-3477 / RDC(s): QUE)

4. Conference Type: Talks or papers at academic conferences. Conference reference: Jeff Moon, 31OCT2016. Internet and e-Government Use Among Canadians: CRDCN National Conference. Saskatoon, Saskatchewan. (Project: 14-SSH-QUE-3936 / RDC(s): QUE)

5. Conference Type: Public presentations. Conference reference: Jeff Moon, 15DEC2016. Internet and e-Government Use Among Canadians: Queen's University Librarians. Queen's University, Kingston, ON. (Project: 14-SSH-QUE-3936 / RDC(s): QUE)

6. Conference Type: Talks or papers at academic conferences. Conference reference: Andrea Craig, 04JUN2016. Neighborhood Sorting and Commuting Choices: Canadian Economic Association. Ottawa. (Project: 14-SSH-QUE-4133 / RDC(s): QUE)

7. Conference Type: Talks or papers at academic conferences. Conference reference: Michael Barber, 23OCT2016. Inequalities in Test Scores between Aboriginal and Non-Aboriginal Youth: Atlantic Canada Economics Association Meetings. Sackville. (Project: 16-SSH-QUE-4659 / RDC(s): QUE)

8. Conference Type: Talks or papers at academic conferences. PhD seminar: Andrea Craig, September2016. Neighborhood Sorting and Commuting Choices: Queen's University Economics Department. (Project: 14-SSH-QUE-4133 / RDC(s): QUE QUE)

9. Conference Type: Talks or papers at academic conferences. Conference reference: Andrea Craig, NOVEMBER2016. Neighborhood Sorting and Commuting Choices: Annual North American Meetings of the Regional Science Association International. Minneapolis. (Project: 14-SSH-QUE-4133 / RDC(s): QUE QUE)

10. Conference Type: Talks or papers at academic conferences. Invited talk: Andrea Craig, NOVEMBER2016. Neighborhood Sorting and Commuting Choices: Lakehead University Economics Department. (Project: 14-SSH-QUE-4133 / RDC(s): QUE QUE)

11. Conference Type: Talks or papers at academic conferences. PhD seminar: Andrea Craig, January2016. Neighborhood Sorting and Commuting Choices: Queen's University Economics Department. (Project: 14-SSH-QUE-4133 / RDC(s): QUE QUE)

12. Conference Type: Talks or papers at academic conferences. Presentation: Lyndsey Telega, 2016. Occupational Prestige, Workplace Stigma, and Mental Health Care Seeking: Queen's University MSc Epidemiology thesis projects. (Project: 16-SSH-QUE-4900 / RDC(s): QUE QUE)

13. Conference Type: Talks or papers at academic conferences. Presentation: Huafang Liu, 2016. The optimal choice of innovation organization and incentive contract: industrial competition and innovation risk: Queen's University PhD consortium at Smith School of Business. (Project: 14-SSH-QUE-4105 / RDC(s): QUE QUE)

14. Conference Type: Talks or papers at academic conferences. PhD seminar: Maggie Jones, December2016. Historical trauma, institutional trust, and the intergenerational transmission of education: Queen's University Economics Department. (Project: 15-INAC-QUE-4600 / RDC(s): QUE QUE)

15. Conference Type: Talks or papers at academic conferences. PhD seminar: Jason Adams, December2016. Behind the safety net: a panel analysis of the Ontario Social Assistance Data set: Queen's University Economics Department. (Project: 14-OIS-QUE-4158 / RDC(s): QUE QUE)

16. Conference Type: Talks or papers at academic conferences. PhD seminar: Dong Shen, April2016. The impact of strategic management practices on firm productivity: Queen's University Economics Department. (Project: 15-SSH-QUE-4302 / RDC(s): QUE QUE)

17. Conference Type: Talks or papers at academic conferences. PhD seminar: Dong Shen, November2016. The impact of strategic management practices on firm productivity: Queen's University Economics Department. (Project: 15-SSH-QUE-4302 / RDC(s): QUE QUE)

18. Conference Type: Talks or papers at academic conferences. PhD seminar: Jason Adams, January2016. Behind the safety net: a panel analysis of the Ontario Social Assistance Data set: Queen's University Economics Department. (Project: 14-OIS-QUE-4158 / RDC(s): QUE QUE)

19. <u>Conference Type</u>: Talks or papers at academic conferences. <u>PhD seminar</u>: Lenin Arango-Castillo, November2016. Durée du chomage et la Crise economique de 2008: l'experience canadienne: Queen's University Economics Department. (Project: 13-SSH-UQAM-3709 / RDC(s): QUE QUE)

Unique presentations:
1, 2, 3, [4,5], [6,8,9,10,11], 7, 12, 13, 14, [15,18], [16,17], 19:
= **12 unique presentations**