THE UNIVERSITY OF BRITISH COLUMBIA
Curriculum Vitae for Faculty Members

Date: September 26, 2021 Initials:

1. SURNAME: Pottinger **FIRST NAME:** Rachel
MIDDLE NAME: Amanda

2. DEPARTMENT/SCHOOL: Computer Science

3. FACULTY: Science

4. PRESENT RANK: Professor **SINCE:** 2021/07

5. POST-SECONDARY EDUCATION

(a) Degrees

University or Institution	Degree	Subject Area	Dates
University of Washington	PhD	Computer Science	2000/04–2004/08
University of Washington	MSc	Computer Science	1997/09–2000/03
Duke University	B.Sc.	Computer Science	1993/09–1997/05

Title of Dissertation: Processing Queries and Merging Schemas in Support of Data Integration.
Name of Supervisors: Philip Bernstein and Alon Halevy

6. EMPLOYMENT RECORD

(a) Prior to coming to UBC

University, Company or Organization	Rank or Title	Dates
Microsoft Research	Research Intern	2003/06–2003/08
Microsoft Research	Research Intern	2002/06–2002/08
Microsoft Research	Research Intern	2001/06–2001/08
Hewlett-Packard Laboratories	Research Intern	1998/06–1998/08
Lucent Technologies, Bell Laboratories	Research Intern	1997/06–1997/08
Microsoft Corporation	Program Manager Intern	1996/06–1996/08

(b) At UBC

Rank or Title	Dates		
Professor	2021/07 to present	Associate Professor	2012/07 to 2021/06
Assistant Professor	2004/09 to 2012/06		

7. LEAVES OF ABSENCE

University, Company or Organization at which Leave was taken	Type of Leave	Dates
University of British Columbia	Sabbatical Leave	2020/09–Present
University of British Columbia	Maternity Leave	2015/08–2016/03
University of British Columbia	Sabbatical Leave	2012/09–2013/08
University of British Columbia	Maternity Leave	2007/10–2008/04

8. TEACHING

(a) Areas of special interest and accomplishments

I led the development of a new computational thinking course (CPSC 100) for non-majors. The first offering of this course was in 2016. The course focuses on three aspects of computational thinking: (1) building blocks (e.g., time analysis of algorithms), (2) applications (e.g., data mining) and (3) impact (e.g., privacy and security implications of data mining).

At the graduate level, I designed two new data management courses: a course on metadata management (CPSC 534A/P) and a new breadth-oriented data management course (CPSC 504 — an existing course on data mining was renumbered to CPSC 564). The design of CPSC 504 was done in conjunction with Laks Lakshmanan and Raymond Ng, though I took the lead and have taught the course most times it has been offered. For both graduate courses I created a novel format where I pair students for presentation and discussion.

(b) Courses Taught at UBC

Session	Course Number	Scheduled Hours	Class Size	Hours Taught	Overall Instructor Effectiveness Rating (out of 5.0)
2021/2022W1	CPSC 304	3		3/week	
2021/2022W1	CPSC 304	3		3/week	
2019/2020W1	CPSC 100	3	167	3/week	4.3
2018/2019W2	CPSC 504	3	10	3/week	5.0
2017/2018W1	CPSC 304	3	160	3/week	4.6
2017/2018W1	CPSC 100	3	166	3/week	4.6
2016/2017W1	CPSC 100	3	87	3/week	4.7
2014/2015W2	CPSC 504	3	14	3/week	4.8
2014/2015W1	CPSC 101/GRSJ 201	3	110/24	3/week	4.6
2013/2014W2	CPSC 101	3	126	3/week	4.6
2013/2014W1	CPSC 304	3	114	3/week	4.8
2011/2012W2	CPSC 304	3	115	3/week	4.4
2011/2012W1	CPSC 534P	3	17	3/week	4.5
2011S1	CPSC 304	3	57	3/week	4.5
2010/2011W1	CPSC 504	3	22	3/week	4.8
2009/2010W2	CPSC 304	3	96	3/week	4.4
2009/2010W1	CPSC 504	3	21	3/week	4.5
2008/2009W2	CPSC 504	3	18	3/week	4.6
2008/2009W1	CPSC 111	3	140	3/week	4.2
2006/2007W2	CPSC 304	3	85	3/week	4.3
2006/2007W1	CPSC 504	3	21	3/week	4.8
2005/2006W2	CPSC 504	3	29	3/week	4.7
2005/2006W1	CPSC 304	3	93	3/week	4.4
2004/2005W2	CPSC 534A	3	15	3/week	4.9

(c) Undergraduate Students Supervised

Student Name	Program	Year		Role
		Start	Finish	
Eugenie Yujing Lai	B.Sc. Computer Science	2019		Directed Study Supervisor
Mary Chung	B.Sc. Computer Science	2020	2020	Co-op co-supervisor
Spring Asrai	B.Sc. Computer Science	2020	2020	Directed Study Supervisor
Ashley Barkworth	B.Sc. Computer Science	2019	2020	Honours Thesis Supervisor
Eugenie Yujing Lai	B.Sc. Computer Science	2019	2019	Summer intern Supervisor
Jianjun Winston Liu	B.Sc. Computer Science	2018	2019	Honours Thesis Supervisor
Alicia Tang	B.Sc. Computer Science	2017	2018	Directed Study Supervisor
Janik Andreas	B.Sc. Computer Science	2017	2018	Honours Thesis Supervisor
Haoran Yu	B.Sc. Computer Science	2016	2017	Directed Study Supervisor
Maninder Singh Saluja	B.Sc. Civil Engineering	2015	2015	MITACS Globalinks Supervisor
Claire Edgcumbe	B.Sc. Computer Science	2014	2015	Honours Thesis Supervisor
Alexia Lou	B.Sc. Computer Science	2014	2014	Directed Study Supervisor
Claire Edgcumbe	B.Sc. Computer Science	2014	2014	USRA Supervisor
Jessica Wong	B.Sc. Computer Science	2013	2013	Directed Study Supervisor
Arianne Dee	Bachelor of Computer Science	2012	2012	Directed Study Supervisor
Arianne Dee	Bachelor of Computer Science	2012	2012	USRA Supervisor
Joyce Zhu	B.Sc. Computer Science	2011	2012	Directed Study Supervisor
Yun Lou	B.Sc. Computer Science	2011	2011	USRA Supervisor
Melissa Smith	B.Sc. Computer Science	2011	2011	Summer intern supervisor
Melissa Smith	B.Sc. Computer Science	2011	2011	Directed Study Supervisor
Yun Lou	B.Sc. Computer Science	2010	2010	USRA Supervisor
Jamila Salari	B.Sc. Computer Science	2009	2009	USRA Supervisor
Piam Kiarostami	Bachelor of Computer Science	2009	2009	Directed Study Supervisor
Chrissie Kwan	B.Sc. Computer Science	2008	2008	Directed Study Supervisor
Scott Thompson	B.Sc. Computer Science	2007	2007	Directed Study Supervisor
April Webster	B.Sc. Computer Science	2007	2007	Directed Study Supervisor
San-Yuen Chang	B.Sc. Computer Science	2006	2006	Co-op Supervisor
Clarence Kwan	B.Sc. Computer Science	2006	2006	Directed Study Supervisor
Alex Shyr	B.Sc. Computer Science	2005	2005	Directed Study Supervisor
Kevin Irmscher	B.Sc. Computer Science	2005	2005	Directed Study Supervisor

(d) MSc Students Supervised

Student Name	Program	Year		Principal Supervisor	Co-Supervisor
		Start	Finish		
Haoran Yu	M.Sc.	2018		Rachel Pottinger	
Ke (Mark) Ma	M.Sc. (essay)	2020	2021	Rachel Pottinger	
Flora Liu	M.Sc. (essay)	2018	2019	Rachel Pottinger	
Yunpiao (Whitney) Bai	M.A.Sc. Civil Engineering	2016	2017	Sheryl Staub-French	Rachel Pottinger
Jessica Wong	M.Sc.	2014	2016	Rachel Pottinger	
Nayantara Duttachoudhury	M.Sc.	2014	2015	Rachel Pottinger	
Omar AlOmeir	M.Sc.	2014	2015	Rachel Pottinger	
Árni Már Thrastarson	M.Sc.	2012	2014	Rachel Pottinger	
Lan Wei	M.Sc.	2012	2013	Rachel Pottinger	
Baipeng Han	M.Sc. (essay)	2012	2013	Rachel Pottinger	
Melissa Smith	M.Sc.	2012	Withdrew	Rachel Pottinger	

(continued...)

Student Name	Program	Year		Principal Supervisor	Co-Supervisor
		Start	Finish		
Wei Sun	M.Sc. (essay)	2011	2012	Rachel Pottinger	
Simona Radu	M.Sc. (essay)	2011	2012	Rachel Pottinger	
Jamila Salari	M.Sc.	2010	Withdrew	Rachel Pottinger	
Zhaohong Charles Chen	M.Sc.	2009	2012	Rachel Pottinger	
Tianyu Li	M.Sc.	2009	2011	Rachel Pottinger	Laks Lakshmanan
Dibesh Shakya	M.Sc.	2009	2011	Rachel Pottinger	
Ali Moosavi	M.Sc.	2009	2010	Rachel Pottinger	Laks Lakshmanan
April Webster	M.Sc.	2008	2010	Rachel Pottinger	
Jiemin Zhang	M.Sc.	2007	2008	Rachel Pottinger	
Michael DiBernardo	M.Sc. (essay)	2006	2007	Rachel Pottinger	
Andrew Carbonetto	M.Sc.	2006	2008	Rachel Pottinger	Francis Ouellette
Ting Wang	M.Sc.	2005	2006	Rachel Pottinger	
Shuan Wang	M.Sc.	2005	2007	Rachel Pottinger	Laks Lakshmanan
Jie Zhao	M.Sc.	2005	2006	Rachel Pottinger	
Xun Sun	M.Sc.	2005	2006	Rachel Pottinger	

Jie Zhao went to Barclays Capital in Singapore. Ting Wang became a PhD student at Georgia Tech. Xun Sun and Shuan Wang went to Microsoft. Michael DiBernardo went to Plate Spin/Novell. Andrew Carbonetto went to MDA. Jiemin Zhang went to Broadridge Financial Solutions. April Webster went to IBM Research, Almaden. Ali Moosavi went to SAP. Dibesh Shakya went to Ideaca Knowledge Services. Tianyu Li went to Microsoft. Zhaohong Charles Chen went to Facebook. Simona Radu went to Avanade. Wei Sun became a PhD student at the UBC Sauder School of Business. Baipeng Han went to nVidia. Lan Wei went to Amazon.ca. Jamila Salari chose to stay at home after her third child was born. Árni Már Thrastarson became an independent consultant at ECBG enterprises. Nayantara Duttachoudhury went to Microsoft. Omar AlOmeir became my Ph.D. student. Whitney Bai went to Esri Canada. Jessica Wong became a sessional lecturer at UBC.

(e) PhD Students Supervised

Student Name	Program	Year		Principal Supervisor	Co-Supervisor
		Start	Finish		
Omar AlOmeir	Ph.D.	2016		Rachel Pottinger	
Zainab Zolaktaf	Ph.D.	2012	2019	Rachel Pottinger	
Michael Lawrence	Ph.D.	2006	2013	Rachel Pottinger	
Jian Xu	Ph.D.	2006	2011	Rachel Pottinger	

Jian Xu went to Microsoft. Michael Lawrence went to Google. Zainab Zolaktaf went to EhsAI.

(f) Postdocs Supervised

Student Name	Program	Year		Principal Supervisor	Co-Supervisor
		Start	Finish		
Mostafa Milani	Postdoc	2019	2020	Rachel Pottinger	
Puyan Zadeh	Postdoc	2017	2018	Sheryl Staub-French	Rachel Pottinger
Pirooz Chubak	Postdoc	2012	2013	Rachel Pottinger	
Flavio Rizzolo*	Postdoc	2010	2011	Iluju Kiringa (Ottawa)	Rachel Pottinger

* Flavio Rizzolo was at the University of Ottawa, but his project was joint between Ottawa and UBC. Flavio Rizzolo went to Statistics Canada. Pirooz Chubak went to Samsung Research. Puyan Zadeh

became an adjunct professor in the Civil Engineering department at UBC. Mostafa Milani became an assistant professor at Western University.

(g) Graduate Supervisory Committees

		Year		
Student Name	**Program**	**Start**	**Finish**	**Role**
Devarsh Bhonde	Ph.D. Civil Engineering	2019		Thesis Committee Member
Gustavo Tsay	Ph.D. Civil Engineering	2018		Thesis Committee Member
Dalia Alghamdi	Ph.D. Bioinformatics	2017		Thesis Committee Member
Jatin Maheshwary	M.A.Sc. Civil Engineering	2018	2018	Second Reader
Kimberly Dextras-Romagnino	M.Sc. Computer Science	2018	2018	Thesis Committee Member
Hasan Cavka	Ph.D. Civil Engineering	2012	2017	Thesis Committee Member
Wei Sun	Ph.D. Business	2014	2015	Thesis Committee Member
Mandeep Takhar	M.Sc. Computer Science	2014	2014	Thesis Committee Member
Valerie Ishida	M.Sc. Computer Science	2014	2014	Thesis Committee Member
Behzad Pilehchianlangroodi	M.Sc. Civil Engineering	2012	2012	Thesis Committee Member
Mandana Sotoodeh	Ph.D. Electrical & Comp. Eng.	2007	Incomplete	Thesis Committee Member
Madhav Nepal	Ph.D. Civil Engineering	2006	2011	Thesis Committee Member
Brett Cannon	Ph.D. Computer Science	2009	2011	Thesis Committee Member
Wendy Hui Wang	Ph.D. Computer Science	2006	2006	Thesis Committee Member
Terence Ho	M.Sc. Computer Science	2007	2008	Thesis Committee Member
Alfred Pang	M.Sc. Computer Science	2007	2007	Second Reader for Breadth Essay
Bertrand Low	M.Sc. Computer Science	2006	2007	Thesis Committee Member
Fei Ma	M.Sc. Computer Science	2006	2006	Thesis Committee Member
Elaine Chang	M.Sc. Computer Science	2005	2005	Thesis Committee Member

9. SCHOLARLY AND PROFESSIONAL ACTIVITIES

(a) Areas of special interest and accomplishments

Using data is hard. Users do not understand how to access the data they have. This problem is worse when users want to combine data from multiple sources that may be stored in different ways. My research agenda draws inspiration from and aims to resolve this problem, with a focus on making data accessible to users in application-based settings. Collaborating with researchers in other domains helps me to ensure that my research is applicable to real-world problems. I have published papers on data from many disciplines. This includes publications listed at the end of this CV in bioinformatics [J2, C3], financial data [W9], astronomy [C12], disaster management [J11, J6, C10], and especially Civil Engineering [J15, J14, J13, J12, J10, J8, J5, C8, C7, W12, W11, W10, W8, W7, W5, W4, W3].

(b) Research or equivalent grants (indicate under COMP whether grants were obtained competitively (C) or non-competitively (NC))

Agency	**Title**	**Comp**	**$/Year**	**Year(s)**	**PI(s)**	**Co-PIs**
NSERC Discovery	Improving Recommending and Understanding Schemas and Their Provenance	C	42,000	2017–2022	Rachel Pottinger	

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Agency	Title	Comp	$/Year	Year(s)	PI(s)	Co-PIs
NSERC Accelerator		C	40,000	2017–2020	Rachel Pottinger	
NSERC Discovery	Improving Schema Understanding in Integration	C	24,000	2011–2017	Rachel Pottinger	
NSERC Strategic Project Grant	IDEAS2.0: Integrative Data-Enabled Approaches to Sustainability across Scales	C	150,920 Total 30,184 Individual share	2011–2014	Sheryl Staub-French	Kellogg Booth, Ronald Kellett, Rachel Pottinger, Maged Senbel
SAP and NSERC CRD	Requirements-Driven Data Warehousing	C	68,656 Total 17,264 Individual share	2009–2011	Iluju Kiringa	Mariano Consens, Rachel Pottinger
NSERC BIN Strategic Network	Design of a Conceptual Integration Model: Language and Algorithms	C	70,754 Total 37,655 Individual share	2009–2014	Iluju Kiringa, Rachel Pottinger	
NSERC BIN Strategic Network	Data Warehouse Generation	C	25,000 Total 15,000 Individual share	2011	Iluju Kiringa, Rachel Pottinger	
NSERC BIN Strategic Network	Ontology Discovery from Documents and Social Media	C	15,186 Total 7,593 Individual share	2009–2012	Laks. V.S. Lakshmanan, Rachel Pottinger	
NSERC BIN Strategic Network	Schema Mapping Management and Coordination	C	57,830 Total 42,330 Individual share	2011–2013	Denilson Barbosa, Rachel Pottinger	
NSERC Discovery	Data Management Techniques for Unmanaged Data	C	20,500	2008–2010	Rachel Pottinger	
NSERC Strategic Project Grant	ARTIFACT: Advanced Research, Techniques and Informatics for Future Advantages in Construction	C	147,500 Total 36,875 Individual share	2006–2009	Sheryl Staub-French	Kellogg Booth, Rachel Pottinger, Melanie Tory

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Agency	Title	Comp	$/Year	Year(s)	PI(s)	Co-PIs
NSERC-PSERPC	Decision Coordination for a National Network of Infrastructures	C	340,000 Total 17,000 Individual share	2005–2008	José Martí	and 12 others
NSERC Discovery	Extending, Verifying, and Applying Metadata Management	C	22,000	2005–2008	Rachel Pottinger	
University of British Columbia	Startup	NC	60,000	2004	Rachel Pottinger	

(c) Research or equivalent contracts (indicate under COMP whether grants were obtained competitively (C) or non-competitively (NC))

(d) Invited Presentations

- **Panelist** What is the future of database education? Very Large Data Bases Conference (VLDB), August 2021.
- **Improving Understanding and Exploration of Data by Non-Database Experts**:
  - Dalhousie University, November 2018.
  - University of Waterloo, April 2018.
  - Duke University, April 2018.
  - North Carolina State University, April 2018.
- **Understanding and Exploring: Schemas, Recommendations, and Provenance**:
  - Northwest Database Society Annual Meeting, January 2018.
- **Real Data**:
  - NSERC Workshop on Empirical Evaluation of Big Data Integration and Cleaning, University of Toronto, September 2014.
- **Interdisciplinary Database Research**:
  - University of Toronto, February 2013.
- **Semantic Integration**:
  - Banff Visual Analytics Interdisciplinary Workshop on Canadian and Global Challenges in Financial Risk Analysis: Defining Visual Solutions, May 2012.
- **Improving Collaboration Through Schema Understandability and Long Term Exception Handling**:
  - NSERC BIN/IBM Research Business Intelligence Workshop, IBM Watson, February 2012.
- **Improving Data Warehouse Construction and Schema Understandability**:
  - NSERC BIN/SAP Research Business Intelligence Practice Workshop, Sophia-Antipolis, France, September 2011.
- **Data Coordination & Conceptual Integration Management**:
  - BIN workshop, Banff International Research Station, May, 2011.
- **Semantic Integration of Real World Data**:
  - University of Toronto, July, 2011.
  - University of Maryland, April, 2011.
  - Cornell University, February, 2011.
  - University of Michigan, February, 2011.
- **Schema Merging and Mapping Creation for Relational Sources**:

  - University of Alberta Database Systems Seminar, May, 2009.
- **Current Trends in Metadata Management Research: Taxonomies and Ontologies**:
  - Joint meeting of Society for Technical Communicators, Canada West Coast Chapter and Content Management Professionals, Canada West Community, May, 2006.
- **Processing Queries and Merging Schemas in Support of Data Integration**:
  - Duke University, May, 2004.
  - University of British Columbia, April, 2004.
  - University of Virgina, April, 2004.
  - Tufts University, March, 2004.
  - University of Waterloo, March 2004.
  - Indiana University, February, 2004.
- **Merging Schemas and Processing Queries in Support of Data Integration**:
  - Microsoft Research, 2004.
- **The Merge Operator for Model Management**:
  - University of Maryland, 2001.
- **A Scalable Algorithm for Answering Queries Using Views**:
  - Dagstuhl Seminar #99271: Foundations for Information Integration, 1999.

(e) Other Presentations

- **SeMap: A Generic Mapping Construction System**:
  - EDBT, Nantes, France, 2008.
- **Schema Merging and Mapping Creation for Relational Sources**:
  - EDBT, Nantes, France, 2008.
- **Merging Models Based on Given Correspondences**:
  - VLDB, Berlin, Germany, 2003.
- **A Scalable Algorithm for Answering Queries Using Views**:
  - VLDB, Cairo, Egypt, 2000.

(f) Conference Participation (Organizer, Keynote Speaker, etc.)

- **Co-Chair**: Computing Research Association's New Chairs Workshop, July 2020.
- **General Co-Chair**: International Conference on the Management of Data (SIGMOD), June 2020.
- **Area Chair** International Conference on Data Engineering (ICDE), April 2018.
- **Co-Chair**: PhD Workshop, VLDB, 2015.
- **Co-Chair**: DB Me (Database Mentoring workshop), SIGMOD, June 2012.
- **Co-Chair**: New Investigator, Grace Hopper Celebration of Women in Computing, October 2012.
- **Co-Chair**: DESWeb (Data Engineering meets the Semantic Web, ICDE, April 2012.
- **Co-Chair**: Next Generation Business Intelligence (BI) Tools, IBM CASCON, November 2010.
- **Co-Chair**: DB Me (Database Mentoring workshop), SIGMOD, June 2010.
- **Registration Co-chair**: ACM SIGMOD, June 2008.
- **Co-chair**: Technical Posters, Grace Hopper Celebration of Women in Computing, October 2006.

10. SERVICE TO THE UNIVERSITY

(a) Memberships on committees, including offices held and dates

Departmental Leadership:

- Associate Head for the Undergraduate Program, 2018/07–2020/08.
- Carl Wieman Science Education Initiative Director, 2017/01–2018/06.

Departmental Committee Chairs:

- Committee for Outreach, Diversity, and Equity (CODE), 2019/02–2019/07.

Departmental Committee Memberships:

- Program Experience Committee (ex-officio member), 2018/07–2020/08.
- Educational Leadership Recruiting Committee (ex-officio member), 2018/07–2020/06.
- Student Development (ex-officio member), 2018/07–2019/07.
- Committee for Outreach, Diversity, and Equity (CODE) (ex-officio member), 2018/07–2019/01.
- Research Faculty Recruiting Committee, 2017/10–2018/06.
- Program Experience Committee, 2014/09–2015/08, 2017/09–2018/06.
- Strategic Planning Committee, 2017/12–2018/03.
- Committee for Outreach, Diversity, and Equality (CODE), 2016/09–2017/08.
- Merit Committee, 2016/05.
- Graduate Recruiting Committee, 2013/09–2015/08.
- Graduate Affairs Committee, 2013/09–2015/08.
- Head Search Committee, 2015/03–2015/04.
- Reid Holmes's tenure mini committee, 2015/06.
- Merit Committee, 2014/05.
- Ron Garcia's reappointment mini-committee, 2014/05.
- Strategic Planning Steering Committee, 2012/02–2013/04.
- Communications, 2011/09–2012/08.
- Finance, 2010/09–2011/08.
- Focus on Women in Computer Science, 2008/09–2010/08.
- Faculty Affairs Committee, 2005/05–2007/09.
- Ad-hoc Committee on Breadth Requirements for PhD students, 2005/05–2006/06.

University of British Columbia Committees:

- Bachelor of Media Studies (BMS) Steering Committee, 2018/09–2020/08.
- Faculty of Science's Skylight Faculty Advisory Council, 2017/01–2020/08.
- Adjudication of Vice-President, Research & Innovation's Grants for Catalyzing Research Clusters (GCRC) proposals, 2019/12.
- Faculty of Science Working Group on Data Science, 2018/05–2019/09.
- Adjudication of Vice-President, Research & Innovation's Program for Undergraduate Research Experience Funding Proposals, 2019/03.
- Graduate & Postdoctoral Studies University Doctoral Fellowship (UDF) Committee, 2017.
- Graduate & Postdoctoral Studies Canada Graduate Scholarship Master's (CGSM) and Affiliated Committee, 2015.

- Graduate & Postdoctoral Studies Advisory Group on Graduate Supervision, 2014.
- Faculty of Graduate and Postdoctoral Studies Canada Graduate Scholarship masters National Sciences and Engineering subcommittee, 2013.
- Institute of Computing, Information, and Congitive Systems (ICICS) Distinguished Lecture Committee, 2007/01–2008/01.

University of Washington Department of Computer Science:

- Chair Search Committee, 2000–2001.
- Prospective Graduate Student Committee, 1999.

(b) Other service, including dates

University of British Columbia:

- Speaker: "A Short History of Programming Languages and Applications: A Chicken and Egg Approach." UBC Geering Up Computational Thinking Professional Development Day, 2017.
- Imagine UBC Orientations Professor, 2008, 2011, 2013, 2014.
- Imagine UBC presentation, 2008.
- Mentor, UBC Department of Computer Science Tri-Mentoring Program, 2004–2007, 2008–2015.

University of Washington Department of Computer Science:

- Presentation: "Finding an Academic Job: The University of Washington's course": *Exploring Faculty Careers in Higher Education*, 2006.
- Mentor, University of Washington's Making Connections high school mentoring program for girls and under-represented minorities, 2000–2004.
- Designer and organizer, undergraduate women's mentoring program, 2003.
- Tutor for women and underrepresented minorities, 2002–2003.
- Graduate Student Coordinator, 2000–2001.

Duke University Department of Computer Science:

- President, Duke University Student ACM Chapter, 1996–1997.

11. SERVICE TO THE COMMUNITY

(a) Memberships on advisory boards

- ACM Special Interest Group on Management of Data (SIGMOD) Secretary/Treasurer (2021-2025).
- Computing Research Association (CRA) Board of Directors (Two elected 3 year terms), 2018–present.

(b) Editorships

- **Associate Editor** International Conference on the Management of Data (SIGMOD), 2022.
- **Associate Editor** Very Large Databases Journal (VLDB Journal), 2019–2025.
- **Associate Editor** Proceedings of Very Large Databases (PVLDB), 2017.

(c) Program Committees

- Very Large Databases (VLDB) Demonstrations Track, 2013, 2018.
- International Conference on Data Engineering (ICDE) Lightning talks, 2018.
- Very Large Databases (VLDB) PhD Workshop, 2005, 2007, 2017.
- International Workshop on the Web and Databases (WebDB), 2017.
- Very Large Databases (VLDB), 2007, 2008, 2009, 2010, 2011, 2012, 2016.
- ACM SIGMOD International Conference on Management of Data (SIGMOD) Demonstrations Track, 2012, 2014, 2016.
- Very Large Databases (VLDB) Industrial Track, 2015.
- International Conference on Data Engineering (ICDE), 2006, 2007, 2009, 2010, 2011, 2012, 2013, 2014, 2015.
- ACM SIGMOD International Conference on Management of Data (SIGMOD), 2011, 2015.
- Workshop on Data Integration and Applications (DINA), 2014.
- ACM Conference on Information and Knowledge Management (CIKM), 2013.
- Extending Database Technology (EDBT), 2012, 2013.
- International Database Engineering & Applications Symposium (IDEAS), 2012.
- International Workshop on Semantic Search over the Web (SSW) 2012
- Alberto Mendelzon Workshop on Foundations of Databases (AMW) 2010, 2012.
- International Conference on Conceptual Modeling (ER), 2009, 2011, 2012.
- Workshop on Enabling Real Time Business Intelligence (BIRTE), 2009.
- Workshop on Databases, Information Systems and Peer-to-Peer Computing (DBISP2P), 2005, 2006, 2007.
- The International Conference on Management of Data (COMAD), 2006.
- The International Workshop on Web Information and Data Management (WIDM), 2006.
- International Conference on Data Engineering (ICDE) PhD Workshop, 2006.
- The International Workshop on Database Interoperability (InterDB), 2006.

(d) Reviewer (journal, agency, etc., including dates)

Funding agencies

- NSERC, external reviewer, 2006, 2007, 2010, 2011, 2012, 2013, 2015, 2017, 2018, 2019, 2020.
- US NSF Information and Intelligence Systems Panel, external reviewer, 2014, 2015.
- US NSF Information and Intelligent Systems Panel, member, 2011, 2014.
- Austrian Science Fund, external reviewer, 2011, 2012.

Books

- Morgan & Claypool series on Data Management

Journals

- VLDB Journal, 2002-2009, 2012, 2014, 2018.
- Automation in Construction, 2017.
- ACM Transactions on Database Systems, 2005, 2011, 2012, 2015, 2016.
- IEEE Transactions on Knowledge and Data Engineering, 2002–2014, 2016.
- Information Systems Journal, 2003–2010, 2013.
- World Wide Web Journal, 2012.

- ACM Computing Surveys, 2007–2011.
- Communications of the ACM, 2004, 2011.
- VLDB (Journal Track), 2006–2009.
- Theoretical Computer Science, 2008.
- ACM Transactions on the Web, 2007.
- Data and Knowledge Engineering (DKE), 2006.
- IBM Systems Journal, 2005.
- AI Communications, 2002.
- Knowledge and Information Systems, 2001.

Other

- Computing Research Association and Computing Community Consortium Computing Innovation Fellows 2020 Reviewer.

(e) External examiner (indicate university and dates)

- University Ph.D. Examiner for Stevan Gavrilovic, University of British Columbia, Civil Engineering, 2020.
- University Ph.D. Examiner for Shafiq Joty, University of British Columbia, Computer Science, 2013.
- External Ph.D. Examiner for Patricia Rodriguez-Gianolli, University of Toronto, Computer Science, 2013.
- University Ph.D. Examiner for Hongrae Lee, University of British Columbia, Computer Science, 2010.
- University Ph.D. Examiner for Sase Singh, University of British Columbia, Business Admin., 2009.
- MS. Thesis Examiner for Kathleen Bill, University of Newcastle, Commerce, 2005.

(f) National and international service for women in science and engineering

- Selected Presentations:
  - Planning Your Research Career: CRA Career Mentoring Workshop, February 27, 2020.
  - How I fell in love with computer science and got a great career in 7 not so easy lessons: Quantum Leaps Burnaby, April 2, 2017.
  - Coordinator: Passion and Purpose Panel, Regional Grace Hopper Celebration, 2014.
  - Graduate School Survival Skills: Computing Research Association's Committee on the Status of Women in Computing's Grad Cohort for Women Workshop, the Grace Hopper Celebration of Women in Computing, October 8, 2014.
  - Graduate School Survival Skills: Computing Research Association's Committee on the Status of Women in Computing's Grad Cohort for Women Workshop, the Grace Hopper Celebration of Women in Computing, October 3, 2012.
  - Graduate School Survival Skills: Computing Research Association's Committee on the Status of Women in Computing's Grad Cohort for Women Workshop, the Grace Hopper Celebration of Women in Computing, November 9, 2011.
  - Ten Ways to Succeed/Fail in Graduate School: Computing Research Association's Committee on the Status of Women in Computing's Grad Cohort for Women Workshop, February 24, 2005.

  - Pursuing Graduate School & the Computer Science Research Career: Grace Hopper Celebration of Women in Computing Panel, 2002.

- Co-creator and co-moderator of lists for pretenure and job hunting PhD women in Computer Science: Computing Research Association's Committee on the Status of Women in Computing Research, 2005–present.
- MentorNet Mentor, 2015–2019.
- Co-chair of the Selection Committee for the Denice Denton Emerging Leader ABIE award, 2017, 2018.
- Member of the Selection Committee for the Denice Denton Emerging Leader ABIE award, 2016.
- Member of the organizing committee for the Denice Denton Emerging Leaders Workshop, 2016.
- Member of the Grace Hopper Celebration of Women in Computing Faculty Track Committee, 2015.
- Member of the Mentor/Protege council of MentorNet, 2013–2014.
- Panel Organizer and Moderator: Selected Outreach Activities in British Columbia, Grace Hopper Celebration of Women in Computing, October 2, 2009.
- Academic Advisory Committee Member: Grace Hopper Celebration of Women in Computing, October 17–20, 2007.
- Co-organizer: Anonymous Advice Session for Junior Faculty, the Grace Hopper Celebration of Women in Computing, Oct 6, 2006.

(g) Other service to the community

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- Member of the NSERC Business Intelligence Network's Scientific Advisory Council, 2012–2014.
- Associate Information Director ACM SIGMOD, 2005–2014.
- Speaker, New Researchers' Symposium, SIGMOD 2010, June, 2010.

12. AWARDS AND DISTINCTIONS

(a) Awards for Teaching (indicate name of award, awarding organizations and date)

- Excellence in Teaching Award, Department of Computer Science's 50th Anniversary, UBC, 2018.
- Incredible Instructor Award, CPSC 100, Department of Computer Science, UBC, 2017.
- Incredible Instructor Award, CPSC 304, Department of Computer Science, UBC, 2010, 2014.
- Nominated for UBC Killam Teaching Prize for Graduate Instruction, 2008 and 2011.
- Nominated for UBC Killam Award for Excellence in Mentoring, 2009.

(b) Awards for Scholarship (indicate name of award, awarding organizations and date)

- Denice Denton Emerging Leader Award (awarded for high quality research and significant impact on diversity), Anita Borg Institute, 2007.
- Graduate Research Fellowship, Microsoft Research, 2001–2004.
- Fellowship, Achievement Rewards for College Scientists Foundation, 1997–2000.
- Graduate Research Fellowship, United States National Science Foundation, 1997–2000.
- Graduate Research Program for Women Grant, Lucent Technologies, Bell Laboratories, 1997–2000.

THE UNIVERSITY OF BRITISH COLUMBIA
Publication Record

SURNAME: Pottinger

Date: September 26, 2021 Initials:
FIRST NAME: Rachel
MIDDLE NAME: Amanda

1. REFEREED PUBLICATIONS

In category 1b, I list those conference publications that were subjected to rigorous review (typically 3 or more lengthy reviews). In databases, significant emphasis is placed on both journal and rigorously reviewed conference publications. These rigorous conference venues are at least as prestigious and impactful as the journal venues.

I separate conference publications in which the review process is less rigorous (less than 3 reviews or short reviews) into category 1.c.i, "Workshop and Conference Proceedings (Other)". Acceptance rates for conferences are provided when available. Authors are generally in the order of the main student, other students, then faculty; authors are ordered alphabetically within groups. Exceptions are where order reflects contributions. There is one exception to this; in my papers with civil engineer Dr. Sheryl Staub-French, the order of authorship between the two of us was determined by our relative contributions.

In all cases, one is only included as an author if intellectual contributions have been made to the work. I have placed the name of students and postdocs for whom I have been the supervisor or co-supervisor in bold and italicized the names of the students I have supervised in other fashions (e.g., those who completed the work on the paper while taking my class).

(a) Journals

J15. **Puyan A. Zadeh**, **Lan Wei**, **Arianne Dee**, Rachel Pottinger, and Sheryl Staub-French. BIM CityGML Data Integration for Modern Urban Challenges. *Journal of Information Technology in Construction (ITcon).* 24(2019): 318–340.

J14. **Puyan A. Zadeh**, Guan Wang, *Hasan Burak-Cavka*, Sheryl Staub-French, and Rachel Pottinger. Information Quality Assessment for Facility Management. *Journal of Advanced Engineering Informatics (ADVEI).* (2017): 181–205.

J13. *Hasan Burak Cavka*, Sheryl Staub-French, and Rachel Pottinger. Evaluating the Alignment of Organizational and Project Contexts for BIM Adoption: A Case Study of a Large Owner Organization. *Buildings.* 5.4(2015): 1265–1300.

J12. **Michael Lawrence**, Rachel Pottinger, Sheryl Staub-French, and *Madhav Nepal.* Creating Flexible Mappings Between Building Information Models and Cost Information. *Automation in Construction.* 45(2014): 107–118.

J11. **Jian Xu** and Rachel Pottinger. Integrating Domain Heterogeneous Data Sources using Decomposition Aggregation Queries. *Information Systems.* 39.1(2014):80–107.

J10. *Madhav Nepal*, Sheryl Staub-French, Rachel Pottinger, and **Jiemin Zhang**. Ontology-Based Feature Modeling for Construction Information Extraction from a Building Information Model. *The Journal of Computing in Civil Engineering*. 27.5(2013): 555–569.

J9. Melanie Tory, Sheryl Staub-French, Dandan Huang, Yu-Ling Chang, Colin Swindells, and Rachel Pottinger. Comparative Visualization of Construction Schedules. *Automation in Construction*. 29(2013): 68–82.

J8. *Madhav Nepal*, Sheryl Staub-French, Rachel Pottinger, and **April Webster**. Querying a Building Information Model for Construction-Specific Spatial Information. *Advanced Engineering Informatics*. 26.4(2012):904–923.

J7. **Jie Zhao**, Rachel Pottinger, *Cody Brown*, and *Shriram Rajagopalan*. Schema Mediation in Peer Data Management Systems. *International Journal on Cooperative Information Systems*. 20.3(2011):261–305.

J6. **Jian Xu** and Rachel Pottinger. Optimizing acquaintance selection in a PDMS. *International Journal on Cooperative Information Systems*. 20.1(2011): 39–81.

J5. **Jiemin Zhang, April Webster, Michael Lawrence**, *Madhav Nepal*, Rachel Pottinger, Sheryl Staub-French, and Melanie Tory. Improving the Usability of Standard Schemas. *Information Systems*. 36(2011): 209–221.

J4. Angela Bonifati, *Elaine Chang, Terence Ho*, Laks V.S. Lakshmanan, Rachel Pottinger, and *Yongik Chung*. Schema Mapping and Query Translation in Heterogeneous P2P XML Databases. *VLDB Journal*. 19.2 (2010): 231–256.

J3. Dandan Huang, Melanie Tory, Sheryl Staub-French, and Rachel Pottinger. Visualization Techniques for Schedule Comparison. *Computer Graphics Forum (Proceedings of EuroVis 2009)*, 28.3(2009): 951–958.

J2. **Michael DiBernardo,** Rachel Pottinger, and Mark Wilkinson. Semi-Automatic Web Service Composition for the Life Sciences Using the BioMoby Semantic Web Framework. *Journal of Biomedical Informatics*. 41.5(2008): 837–847.

J1. Rachel Pottinger and Alon Halevy. MiniCon: A Scalable Algorithm for Answering Queries Using Views. *VLDB Journal*. 10.2–3(2001): 182–198.

(b) Conference Proceedings (Rigorously Reviewed)

C15. **Omar AlOmeir**, **Eugenie Yujing Lai**, **Mostafa Milani**, and Rachel Pottinger. Summarizing Provenance of Aggregate Results in Relational Databases. Short paper in *the International Conference on Data Engineering (ICDE)*. 2021. 1955–1958.

C14. **Zainab Zolaktaf**, **Mostafa Milani**, and Rachel Pottinger. Facilitating SQL Query Composition and Analysis. *ACM SIGMOD International Conference on Management of Data (SIGMOD)*. 2020. 209–224 (Conference acceptance rate = 26.9%).

C13. **Omar AlOmeir**, **Eugenie Yujing Lai**, **Mostafa Milani**, and Rachel Pottinger. The Pastwatch: On the usability of provenance data in relational databases. Short paper in *the International Conference on Data Engineering (ICDE)*. 2020. 1882–1885 (Short paper acceptance rate = 33%).

C12. **Jianjun Winston Liu**, **Zainab Zolaktaf**, and Rachel Pottinger. Improvement of SQL Recommendation on a Scientific Database. Short paper in *International Conference on Scientific and Statistical Database Management (SSDBM)* 2019. 206–209 (Short paper acceptance rate = 62%).

C11. **Zainab Zolaktaf**, Reza Babanezhad, and Rachel Pottinger. A Generic Top-N Recommendation Framework for Trading-off Accuracy, Novelty, and Coverage. International Conference on Data Engineering (ICDE). 2018. 149–160. (Conference acceptance rate = 23%).

C10. **Zainab Zolaktaf**, **Jian Xu**, and Rachel Pottinger. Extracting Aggregate Answer Statistics for Integration. International Conference on Extending Database Technology (EDBT). 2015. 85–96. (Conference acceptance rate = 25%).

C9. **Tianyu Li**, **Pirooz Chubak**, Laks V.S. Lakshmanan, and Rachel Pottinger. Efficient Extraction of Ontologies from Domain Specific Text Corpora. Short Paper in *International Conference on Information and Knowledge Management (CIKM)*. 2012. 1537–1541. (Conference acceptance rate for short papers = 27.7%.)

C8. **Michael Lawrence**, Rachel Pottinger, and Sheryl Staub-French. Data Coordination: Supporting Contingent Updates. *International Conference on Very Large Databases (VLDB)*. 2011. 831–842. (Conference acceptance rate = 18%.)

C7. **Ali Moosavi, Tianyu Li,** Laks V.S. Lakshmanan, and Rachel Pottinger: ONTECTAS: Bridging the Gap Between Collaborative Tagging Systems and Structured Data. *International Conference on Advanced Information System Engineering (CAiSE)*. 2011. 436–451. (Conference acceptance rate = 13%.)

C6. **Xun Sun**, Rachel Pottinger, and **Michael Lawrence**. Support Elements in Graph Structured Schema Reintegration. Short Paper in *International Conference on Information and Knowledge Management (CIKM)*. 2010. 1361–1364. (Conference acceptance rate for short papers = 31.3%.)

C5. Rachel Pottinger and Philip Bernstein. Schema Merging and Mapping Creation for Relational Sources. *Extending Database Technology (EDBT)*. 2008. 73–84. (Conference acceptance rate = 16%)

C4. **Ting Wang** and Rachel Pottinger. SeMap: A Generic Schema Matching System. *Extending Database Technology (EDBT)*. 2008. 97–108. (Conference acceptance rate = 16%.)

C3. Peter Mork, Rachel Pottinger, and Philip Bernstein. Challenges in Precisely Aligning Models of Human Anatomy Using Generic Schema Matching. *MedInfo*. 2004. 401–405. (Conference acceptance rate = 38%.)

C2. Rachel Pottinger and Philip Bernstein. Merging Models Based on Given Correspondences. *International Conference on Very Large Databases (VLDB)*. 2003. 862–873. (Conference acceptance rate = 18%.)

C1. Rachel Pottinger and Alon Levy. A Scalable Algorithm for Answering Queries Using Views. *International Conference on Very Large Databases (VLDB)*. 2000. 484–495. (Conference acceptance rate = 15%.)

(c) Other

i. Workshop and Conference Proceedings (Other)

W13. **Zainab Zolaktaf**, **Omar AlOmeir**, and Rachel Pottinger. Bridging the Gap Between User-centric and Offline Evaluation of Personalized Recommendation Systems. *MuMe 2018: 1st International Workshop on Multi-Method Evaluation of Personalized Systems*. 2018.

W12. **Yunpaio Bai**, **Puyan Zadeh**, Sheryl Staub-French, and Rachel Pottinger. Integrating GIS and BIM for Community-Scale Energy Modeling. *International Conference on Sustainable Infrastructure*. 2017. 185–196.

W11. *Hasan Burak Cavka*, Sheryl Staub-French, and Rachel Pottinger. Evaluation of Organizational Context and Requirements for Leveraging Building Information Models to Support Handover and Operations & Maintenance. *CSCE, 5th International/11th Construction Specialty Conference*. 2015.

W10. **Puyan A. Zadeh**, Sheryl Staub-French, and Rachel Pottinger. Review of BIM Quality Assessment Approaches for Facility Management. *International Construction Specialty Conference*. 2015. ll pages.

W9. Ting Li, Victoria Lemieux, and Rachel Pottinger. Challenges in Resolving Semantic Heterogeneity with The Global Legal Entity Identifier System. *Data Science for Macro-Modeling with Financial and Economic Datasets Workshop*. June, 2014.

W8. *Hasan Burak Cavka*, Sheryl Staub-French, and Rachel Pottinger. Case study of BIM handover to support building operations. *CSCE, 4th Construction Specialty Conference*. 2013.

W7. *Madhav Nepal*, Sheryl Staub-French, and Rachel Pottinger. Providing Query Support to Leverage BIM for Construction. *Construction Research Congress*. 2012. 767–777.

W6. *Mandana Sotoodeh*, Philippe Kruchten, and Rachel Pottinger. Towards Supporting Users in Semantic Exploration of Large Distributed Schemas. *The 8th International Conference on Mobile Web Information Systems*. 2011. 570–577.

W5. **Michael Lawrence**, Rachel Pottinger, and Sheryl Staub-French. Coordination of Data in Heterogeneous Domains. *Second International Workshop on New Trends in Information Integration (NTII) at ICDE*. 2010. 167–170.

W4. *Madhav Nepal*, **Jiemin Zhang, April Webster**, Sheryl Staub-French, Rachel Pottinger, and **Michael Lawrence**. Querying IFC-based Building information Models to Support Construction Management Functions. *Construction Research Congress*. 2009. (Conference acceptance rate = 53%.)

W3. *Madhav Nepal*, Sheryl Staub-French, **Jiemin Zhang**, Rachel Pottinger, and **Michael Lawrence**. Deriving Construction Features from an IFC Model. *Canadian Society for Civil Engineering Conference (CSCE)*. 2008. 11 pages.

W2. *Hassina Bounif*, Stefano Spaccapietra, and Rachel Pottinger. Requirements Ontology and Multi-representation Strategy for Database Schema Evolution. *VLDB Workshop on Ontologies-based techniques for DataBases and Information Systems (ODBIS)*. 2006. 68–84. (50% acceptance rate.)

W1. *Hassina Bounif* and Rachel Pottinger. Schema Repository for Database Schema Evolution. *2nd International Workshop on Data Management in Global Data Repositories (GRep)*. Krakow, Poland. Sep, 2006. 647–651.

ii. Demonstration Descriptions

D2. Angela Bonifati, *Elaine Chang*, *Terence Ho*, Laks Lakshmanan, and Rachel Pottinger. HEP-TOX: Marrying XML and Heterogeneity in Your P2P Databases. Demonstration description in *International Conference on Very Large Databases (VLDB)*. 2005. 74–76.

D1. Zachary Ives, Alon Levy, Jayant Madhavan, Rachel Pottinger, Stefan Saroiu, Igor Tatarinov, Qiong Chen, Ewa Jaslikowska, and Wai Tak Theodora Yeung. Self-Organizing Data Sharing Communities with SAGRES. Demonstration description in *ACM SIGMOD Conference on Management of Data (SIGMOD)*. 2000. 582.

iii. Posters

P4. **Tianyu Li**, Laks V.S. Lakshmanan, and Rachel Pottinger. Ontology Discovery in Collaborative Tagging Systems and Text Data. *The Grace Hopper Celebration of Women in Computing*. Nov, 2011.

P3. **Michael Lawrence** and Rachel Pottinger. A System for Integration of Lossy and Unstructured Data in Large Building Projects. *The 20th Canadian Artificial Intelligence Conference*. May, 2007.

P2. **Andrew Carbonetto**, Francis Ouellette, and Rachel Pottinger. Ontology Alignment on Biological Systems using Domain Taxonomy. *Canadian Genetic Diseases Network (CGDN) Annual Scientific Meeting*. Apr, 2007.

P1. Rachel Pottinger. An Extensible System for Merging Two Models. *International Conference on Very Large Databases (VLDB)*. 2002.

iv. Magazine Articles

M1. Rachel Pottinger. Choosing a Ph.D. Program in Computer Science. *ACM Crossroads Magazine*. 6.1 (Fall 1999): pp. 6 - 13.

2. NON-REFEREED PUBLICATIONS

(a) Invited Papers

I4. David Maier, Rachel Pottinger, AnHai Doan, Eduard Dragut, Bill Howe, Joanne Lateulere, John Lateulere, Mostafa Milani, Tilmann Rabl, Dan Suciu, Yufei Tao, Wang-Chiew Tan, and Kristin Tufte. Advice from SIGMOD/PODS 2020. *SIGMOD Record*. 49.3. (2020): 43–54.

I3. Kenneth A. Ross, Rada Chirkova, Dimitrios Gunopulos, Rachel Pottinger, Jun Yang, and Jingren Zhou. Reminiscences on Influential Papers. *SIGMOD Record*. 34.1 (2005): 74–76.

I2. Rachel Pottinger and Philip Bernstein. Creating a Mediated Schema Based on Initial Correspondences. *IEEE Data Engineering Bulletin*. 25.3 (September 2002): 26–31.

I1. Philip Bernstein, Alon Halevy, and Rachel Pottinger. A Vision for Management of Complex Models. *SIGMOD RECORD*. 29.4 (December 2000): 55–63.

(b) Other Non-Refereed Publications

T2. **Flavio Rizzolo**, Iluju Kiringa, Rachel Pottinger, and Kwok Wong. The Conceptual Integration Modeling Framework: Abstracting from the multidimensional model. arXiv:1009.0255. 2010. 18 pages.

T1. Marti, Srivastava, Ventura, Jatskevitch, Pottinger, Beznosov, Poole, Klinkenberg, Woo, Kruchten, Booth, Rosenberg, Bartram, Hollman, Thibert, **Xu**, Cervantes, Armstrong, Li, Han, Juarez, Ozog, Rahman, Jiang, *Sotoodeh*, Monu, Clarkson, and Ilich. The I2SIM simulator for disaster response coordination in interdependent infrastructure systems. Technical Report to British Columbia Transmission Corporation, Telus Corporation, Greater Vancouver Regional District, and Vancouver International Airport Authority, 2006.

3. BOOKS

(a) Chapters

B4. Rachel Pottinger: Information Integration in Business Intelligence. *Perspectives on Business Intelligence*. Ed. M. Tamer Özsu. Synthesis Lectures on Data Management, April 2013. pp. 53–66.

B3. Rachel Pottinger: Mapping-Based Merging of Schemas. *Schema Matching and Mapping*. Ed. Angela Bonifati, Zohra Bellashene and Erhard Rahm. Data-Centric Systems and Applications (Springer), 2011. pp. 223–252. ISBN 978-3-642-16517-7.

B2. Rachel Pottinger and Philip Bernstein. Associativity and Commutativity in Generic Merge. *Conceptual Modeling: Foundations and Applications*. Springer, 2009: 254–272.

B1. Rachel Pottinger. Database Schema Integration. *Encyclopedia of Geographical Information Systems*. Ed. Shashi Shekhar and Hui Xiong. Springer, 2007.