THE UNIVERSITY OF BRITISH COLUMBIA
Curriculum Vitae for Faculty Members

Date: June 7, 2011 Initials:

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

2. DEPARTMENT/SCHOOL: Computer Science

3. FACULTY: Science

4. PRESENT RANK: Assistant Professor **SINCE:** 9/2004

5. POST-SECONDARY EDUCATION

(a) Degrees

University or Institution	Degree	Subject Area	Dates
University of Washington	PhD	Computer Science	4/00–8/04
University of Washington	MSc	Computer Science	9/97–3/00
Duke University	BSc	Computer Science	9/93–5/97

Title of Dissertation: Processing Queries and Merging Schemas in Support of Data Integration.
Name of Supervisor: 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	6/03–8/03
Microsoft Research	Research Intern	6/02–8/02
Microsoft Research	Research Intern	6/01–8/01
Hewlett-Packard Laboratories	Research Intern	6/98–8/98
Lucent Technologies, Bell Laboratories	Research Intern	6/97–8/97
Microsoft Corporation	Program Manager Intern	6/96–8/96

(b) At UBC

Rank or Title	Dates
Assistant Professor	9/04 to present

7. LEAVES OF ABSENCE

University, Company or Organization at which Leave was taken	Type of Leave	Dates
University of British Columbia	Maternity Leave	10/07–4/08

8. TEACHING

(a) Areas of special interest and accomplishments

I incorporate the latest research into the undergraduate courses I have taught, whether it is our introductory computer science class (CPSC 111) or our introductory data management course (CPSC 304). Even though I make it clear that the research material is optional, it is often mentioned positively on course evaluation.

In CPSC 304, I have attempted to improve aspects of the course each time I teach it. For example, I added a full suite of questions for the personal response system (clickers) that we use. Additionally, with Science Teaching and Learning Fellow Ben Yu, I revised the tutorial materials, which substantially improved the students' perception of the usefulness of the tutorials as measured by student attendance.

At the graduate level, I designed two new data management courses: a course on metadata management (CPSC 534A) and a new breadth oriented data management course (CPSC 504). The design of CPSC 504 was done in conjunction with Laks Lakshmanan and Raymond Ng, though I was the first to teach the course. For both graduate courses I created a novel format where I pair students for presentation and discussion.

(b) Courses Taught at UBC

	Course	Scheduled	Class	Hours Taught			
Session	Number	Hours	Size	Lectures	Tutorials	Labs	Other
2011S1	CPSC 304	3	62	3/week			
2010/2011W1	CPSC 504	3	22	3/week			
2009/2010W1	CPSC 504	3	21	3/week			
2009/2010W2	CPSC 304	3	96	3/week			
2007/2008W2	CPSC 504	3	18	3/week			
2007/2008W1	CPSC 111	3	140	3/week			
2006/2007W2	CPSC 304	3	85	3/week			
2006/2007W1	CPSC 504	3	21	3/week			
2005/2006W2	CPSC 504	3	29	3/week			
2005/2006W1	CPSC 304	3	93	3/week			
2004/2005W2	CPSC 534A	3	15	3/week			

(c) Graduate Students Supervised and/or Cosupervised

		Year		Principal	
Student Name	Program	Start	Finish	Supervisor	CoSupervisor
Simona Radu	M.Sc.	2011		Rachel Pottinger	
Jamila Salari	M.Sc.	2010		Rachel Pottinger	
Charles Z. Chen	M.Sc.	2009		Rachel Pottinger	
Tianyu Li	M.Sc.	2009		Rachel Pottinger	Laks Lakshmanan
Michael Lawrence	Ph.D.	2006		Rachel Pottinger	
Jian Xu	Ph.D.	2006		Rachel Pottinger	
Dibesh Shakya	M.Sc.	2009	2011	Rachel Pottinger	

(continued...)

Student Name	Program	Year		Principal	CoSupervisor
		Start	Finish	Supervisor	
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.	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	Rahel Pottinger	Laks Lakshmanan
Jie Zhao	M.Sc.	2005	2006	Rachel Pottinger	
Xun Sun	M.Sc.	2005	2006	Rachel Pottinger	

Jie Zhao accepted a position at Barclays Capital in Singapore. Ting Wang is now a PhD student at Georgia Tech. Xun Sun and Shuan Wang are now at Microsoft. Michael DiBernardo is now at Plate Spin/Novell. Andrew Carbonetto is now at MDA. Jiemin Zhang is now at Broadridge Financial Solutions. April Webster is now at IBM Research, Almaden. Ali Moosavi is now at SAP. Dibesh Shakya is now at Ideaca Knowledge Services. Jian Xu has accepted a position at Microsoft pending his expected graduation in September.

(d) Other Student Supervisory Activities

Student Name	Program	Year		Role
		Start	Finish	
Flavio Rizzolo	Postdoc	2010		co-supervisor
Mandana Sotoodeh	Ph.D. Electrical and Comp. Eng.	2007		Thesis Committee Member
Madhav Nepal	Ph.D. Civil Engineering	2006		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
Yun Lou	B.Sc. Computer Science	2011		USRA Supervisor
Melissa Smith	BSc. Computer Science	2011		Summer intern supervisor
Melissa Smith	BSc. 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	B.Sc. 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

9. SCHOLARLY AND PROFESSIONAL ACTIVITIES

(a) Areas of special interest and accomplishments

When heterogeneous databases are combined, they typically have different schemas (i.e., data representations). For information to be shared between these databases, there must be some way for differences in representation to be resolved: if information about a neighborhood is stored one way in schema A, and another way in schema B, then for information from both schemas to be combined, there must be some way to describe how data in schema A relates to the data in schema B; this is referred to as semantic heterogeneity. Combining these heterogeneous sources so that they can be queried uniformly is known as semantic integration, and forms the basis of my research program. I focus on both generic semantic integration and on semantic integration in application-based settings. Collaborating with researchers in other domains helps me to ensure that my research is applicable to real world problems.

(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 (Co-PIs in italics)
NSERC Discovery	Improving Schema Understanding in Integration	C	24,000	2011–2016	Rachel Pottinger
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	67,370 Total 31,284 Individual share	2009–2012	Iluju Kiringa, Rachel Pottinger
NSERC BIN Stragetic 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	37,430 Total 21,930 Individual share	2011	Denilson Barbosa, Rachel Pottinger
NSERC Discovery	Data management techniques for unmanaged data	C	20,500	2008 – 2010	Rachel Pottinger
NSERC	ARTIFACT: Advanced	C	147,500	2006 – 2009	Sheryl Staub-French,

(continued...)

Agency	Title	Comp	$/Year	Year(s)	PI (Co-PIs in italics)
Strategic Project Grant	Research, Techniques and Informatics for Future Advantages in Construction		Total 36,875 Individual share		*Kellogg Booth, Rachel Pottinger, Melanie Tory*
NSERC-PSERPC	Decision coordination for national network of infrastructures	C	340,000 Total 17,000 Individual share	2005 – 2008	Jose Marti *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

- **Data Coordination & Conceptual Integration Management**:
  BIN workshop at the Banff International Research Station, May, 2011.
- **Semantic Integration of Real World Data**:
  University of Maryland, April, 2011.
  Cornell University, February, 2011.
  University of Michigan, February, 2011.
- **Managing Academic Risk**:
  New Researchers' Symposium at SIGMOD 2010, June, 2010.
- **Schema Merging and Mapping Creation for Relational Sources**:
  University of Alberta Database Systems Seminar, May, 2009.
- **Finding an Academic Job**:
  The University of Washington's course: "Exploring Faculty Careers in Higher Education," May, 2006.
- **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, 2005.
  University of British Columbia, April, 2005.
  University of Virgina, April, 2005.
  Tufts University, March, 2005.
  University of Waterloo, March 2005.
  Indiana University, February, 2005.
- **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**: Next Generation Business Intelligence (BI) Tools at IBM CASCON, November 4, 2010.
- **Co-Chair**: DB Me (Database Mentoring workshop) at SIGMOD, June 11, 2010.
- **Registration Co-chair**: ACM SIGMOD, June 9–12, 2008.
- **Academic Advisory Committee Member**: Grace Hopper Celebration of Women in Computing, October 17–20, 2007.
- **Co-organizer**: Anonymous Advice Session for Junior Faculty at the Grace Hopper Celebration of Women in Computing, Oct 6, 2006.
- **Co-chair**: Technical Posters, Grace Hopper Celebration of Women in Computing, 2006
- **Speaker**: Computing Research Association's Committee on the Status of Women in Computing's Grad Cohort for Women Workshop, February 24, 2005.

10. SERVICE TO THE UNIVERSITY

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

Departmental Committees:
Finance, 9/2010 – present.
Focus on Women in Computer Science, 9/2008–8/2010.
Faculty Affairs Committee, 5/2005–9/2007.
Ad-hoc Committee on Breadth Requirements for PhD students, 5/2005–6/2006.

ICICS Committees:
ICICS Distinguished Lecture Committee, 1/2007–1/2008.

11. SERVICE TO THE COMMUNITY

(a) Memberships on scholarly societies, including offices held and dates

Association of Computing Machinery (ACM) Member, 1995–present

(b) Program Committees

International Conference on Data Engineering (ICDE), 2006, 2007, 2009–2012
Very Large Databases (VLDB), 2007–2012
Extending Database Technology (EDBT), 2012
International Conference on Conceptual Modeling (ER), 2009, 2011
ACM SIGMOD International Conference on Management of Data (SIGMOD), 2011
Workshop on Enabling Real Time Business Intelligence (BIRTE), 2009
Alberto Mendelzon Workshop on Foundations of Databases (AMW) 2010
Workshop on Databases, Information Systems and Peer-to-Peer Computing (DBISP2P), 2005– 2007
Very Large Databases (VLDB) PhD Workshop, 2005, 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

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

US NSF Information and Intelligent Systems Panel, 2011
ACM Computing Surveys, 2007 – 2011
IEEE Transactions on Knowledge and Data Engineering, 2002–2010
Information Systems Journal, 2003–2010
VLDB (Journal Track), 2006–2009
Theoretical Computer Science, 2008
VLDB Journal, 2002-2007
ACM Transactions on the Web, 2007
IBM Systems Journal, 2005
ACM Transactions on Database Systems, 2005
Communications of the ACM, 2004
AI Communications, 2002
Knowledge and Information Systems, 2001

(d) External examiner (indicate university and dates)

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.

(e) Other service to the community

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, 2008–present
Associate Information Director ACM SIGMOD, 2005–present
Mentor, UBC Department of Computer Science Tri-Mentoring Program, 2004–2007, 2008–2010

12. AWARDS AND DISTINCTIONS

- Incredible Instructor Award, CPSC 304, Department of Computer Science, UBC. 2010.

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

- 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

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

- Denice Denton Emerging Leader Award, Anita Borg Institute, 2007

THE UNIVERSITY OF BRITISH COLUMBIA
Publication Record

Date: June 7, 2011 Initials:
SURNAME: Pottinger **FIRST NAME:** Rachel
MIDDLE NAME: Amanda

1. REFEREED PUBLICATIONS

In databases, significant emphasis is placed on conference publications. Conference submissions are rigorously reviewed. In this section, under category 1b, I have listed those conference publications that were subjected to rigorous review (typically 3 or more lengthy reviews). I have separated conference publications in which the review process was less rigorous (less than 3 reviews or short reviews) into category 1c, "Workshop Proceedings". Acceptance rates for conferences are provided when available.

Authors are generally in the order of the primary student, other students, then faculty in alphabetical order. In publications where students appear at the end, these students were brought on to the project towards the end of the research. 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 I have been involved in supervising in bold.

(a) Journals

1. **Jie Zhao**, Rachel Pottinger, **Cody Brown**, and **Shriram Rajagopalan**. "Schema Mediation in Peer Data Management Systems." International Journal on Cooperative Information Systems, To Appear.

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

3. **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. pp. 209–221.

4. 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.

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

6. **Michael DiBernardo,** Rachel Pottinger and Mark Wilkinson. "Assisted Workflow Assembly for Life-Sciences Web Service Composition in the BioMoby Semantic Web Framework". Journal of Biomedical Informatics, 41.5 (2008): 837–847.

7. 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

1. **Michael Lawrence**, Rachel Pottinger and Sheryl Staub-French. "Update Translation in Data Coordination". VLDB. 2011. To appear.

2. **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. To Appear. (Conference acceptance rate = 13%)

3. **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%)

4. **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%)

5. **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. (Note: in this publication the civil engineers proceed the computer scientists since the work was conducted more by the civil engineers. Additionally, Michael Lawrence participated less than the others, so his name appears last).

6. Rachel Pottinger and Philip Bernstein. "A Generic Mapping Construction System". Extending Database Technology (EDBT). 2008. 73 – 84. (Conference acceptance rate = 16%)

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

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

9. Rachel Pottinger and Philip Bernstein. "Merging Models Based on Given Correspondences". VLDB. 2003. 862 – 873. (18% acceptance rate)

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

(c) Other

(c).1 Invited, Lightly Reviewed Journals

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

2. 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. (Note: this publication was compiled when Kenneth Ross asked a number of researchers to describe pivotal papers in their research careers. The rest of the authors are alphabetical)

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

4. Philip Bernstein, Alon Halevy and Rachel Pottinger. "Model Management: Managing Complex Information Structures". SIGMOD RECORD. 29.4 (December 2000): 55 – 63.

(c).2 Workshop Proceedings

1. **Mandana Sotoodeh**, Philippe Kruchten, Rachel Pottinger. "Towards Supporting Users in Semantic Exploration of Large Distributed Schemas". The 8th International Conference on Mobile Web Information Systems. 2011. To Appear

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

3. **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.

4. **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.

(c).3 Demos

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

2. 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 (demo)". ACM SIGMOD Conference on Management of Data (SIGMOD). 2000. 582.

(c).4 Posters

1. **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.

2. **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.

3. Rachel Pottinger. "An Extensible System for Merging Two Models". International Conference on Very Large Databases. 2002.

(c).5 Magazine Articles

1. 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) Other

1. 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. (Note: for this publication the order is faculty followed by students and ordered within those categories by work on specific projects)

3. BOOKS

(a) Authored

(b) Edited

(c) Chapters

1. 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.

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

4. PATENTS

5. SPECIAL COPYRIGHTS

6. ARTISTIC WORKS, PERFORMANCES, DESIGNS

7. OTHER WORKS

8. WORK SUBMITTED (including publisher and date of submission)

1. **Fatemeh Nargesian, Flavio Rizzolo**, Iluju Kiringa, and Rachel Pottinger. "Bridging Decision Applications and Multidimensional Databases". in submission to IEEE Transactions on Data and Knowledge Engineering (TKDE), April 2011. 14 pages.

2. **Jian Xu** and Rachel Pottinger. "Integrating domain heterogeneous data sources using decomposition aggregation queries". in submission to Information Systems, April 2011. 44 pages.