

YILAN GU

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Curriculum Vitae

EDUCATION

11/2002 - 11/2010	Dept. of Computer Science, University of Toronto, Canada	Ph.D. degree	4.0/4.0
09/2000 - 11/2002	Dept. of Computer Science, University of Toronto, Canada	M.Sc. degree	3.9/4.0
09/1999 - 08/2000	Dept. of Mathematics, University of Ottawa, Canada	Ph.D. program	4.0/4.0
09/1996 - 06/1999	Dept. of Mathematics, Nanjing University, P.R.China	M.Sc. degree	90/100
09/1992 - 06/1996	Dept. of Mathematics, Nanjing University, P.R.China	B.Sc. degree	86/100

PROFESSIONAL TRAINING

Teaching in Higher Education Course, University of Toronto, 01/2009 -04/2009

SELECTED AWARDS, GRANTS AND SCHOLARSHIPS

- 2008 – 2009
 - CWA-W Career Mentoring Event Travel Grant (International)
 - IJCAI'09 Researcher Travel Award (International)
- 2007 – 2008
 - AAAI-08 Student Travel Award (International)
 - GHC'07 ACM's Student Research Competition Travel Award (International)
 - The 2007 Grace Hopper Celebration of Women in Computing Scholarship and the Bridge Day Award (International)
- 2006 – 2007
 - Google Student Award for NRAC'07 (International)
 - IJCAI'07 Researcher Travel Award (International)
- 2000 – 2004
 - Graduate Study Fellowship (Institutional)
- 2003 – 2004
 - IJCAI'03 Student Travel Award (International)
- 1997 – 1998
 - Honor "An Excellent Graduate Student" (Institutional)
- 1996 – 1997
 - National Excellent Graduate Scholarship (National)
- 1994 – 1995
 - Shanghai Baogang Prize (National)
 - The People Scholarship (Institutional)
 - Honor "Students Who Are Full of Creative Power" (Institutional)
- 1993 – 1994
 - Xu Manying (Mathematics) Scholarship (National)
 - The People Scholarship (Institutional)
 - Taiwan Guanghua Scholarship (Provincial)
- 1992 – 1993
 - Xu Manying (Mathematics) Scholarship (National)
 - The People Scholarship (Institutional)

PUBLICATIONS

THESES

1. **Gu, Y.**, Dept. of Computer Science, University of Toronto, Ph.D. thesis: *Advanced Reasoning about Dynamical Systems*. September 2010. Supervisor: Hector Levesque. Thesis advisor: Mikhail Soutchanski.
2. **Gu, Y.**, Dept. of Computer Science, University of Toronto, master thesis: *Handling Uncertainty System in the Situation Calculus with Macro-actions*. September 2002. Supervisor and thesis advisor: Raymond Reiter.
3. **Gu, Y.**, Dept. of Mathematics, Nanjing University, master's thesis: *The Algorithms of Reconstructions of the Open Logic*. June 1999. Supervisor and thesis advisor: Decheng Ding.

JOURNAL ARTICLES

4. **Gu, Y.** and Soutchanski, M., *A Logic for Decidable Reasoning about Actions and Services*, AMAI Special Issue on Commonsense Reasoning for the Semantic Web, 2010. Available at HTTP: <http://www.springerlink.com/content/hr0m7q4h16210365/>

CONFERENCE PUBLICATIONS

5. **Gu, Y.** and Soutchanski, M., *Order-Sorted Reasoning in the Situation Calculus*, in the Proceedings of the 9th International Symposium on Logical Formalizations of Commonsense Reasoning (Commonsense 2009), pp.65-72, 2009.
6. **Gu, Y.** and Soutchanski, M., *Reasoning about Large Taxonomies of Actions*, in the Proceedings of the 23rd AAAI Conference on Artificial Intelligence (AAAI-08), pp. 931-937, 2008.
7. **Gu, Y.** and Soutchanski, M., *Decidable Reasoning in a Modified Situation Calculus*, in the Proceedings of the 20th International Joint Conference on Artificial Intelligence (IJCAI-07), pp.1891-1897, 2007. (Also published in the Proceedings of the 8th International Symposium on Logical Formalizations of Commonsense Reasoning, 2007.)
8. **Gu, Y.** and Soutchanski, M., *The Two-variable Situation Calculus*, in the Proceedings of the third European Starting AI Researcher Symposium (STAIRS-07), pp.144-161, 2006.
9. **Gu, Y.**, *On the Algorithms of Reconstructions of the Open Logic*, in the Proceedings of the Sixth Asian Logic Conference (Vol. 2), 35 - 47, 1998.

WORKSHOP PUBLICATIONS

10. **Gu, Y.**, *Reasoning about Dynamical Systems*, in the Proceedings of Grace Hopper Celebration of Women in Computing 2008 (PhD Forum), 2008.
11. **Gu, Y.** and Soutchanski, M., *Modular Basic Action Theories*, in the Proceedings of the 7th IJCAI International Workshop on Nonmonotonic Reasoning, Action and Change, pp.73-78, 2007.
12. **Gu, Y.** and Soutchanski, M., *A Logic for Decidable Reasoning about Services*, in the Proceedings of ECAI-06 workshop on AI-Driven Technologies for Composition Services, 2006.

(Also published in the Proceedings of AAAI-06 workshop on AI-Driven Technologies for Services-Oriented Computing, 2006.)

13. **Gu, Y.** and Kiringa, I., *Model Checking Meets Theorem Proving: a Situation Calculus Based Approach*, Proceedings of the 11th International Workshop on Nonmonotonic Reasoning, Action, and Change, 2006.
14. **Gu, Y.** and Kiringa, I., *A Situation Calculus Based Approach for Model Checking*, poster publication at NESCAI2006: North East Student Colloquium on Artificial Intelligence, 2006.
15. **Gu, Y.**, *Macro-actions in the Situation Calculus*, in the Proceedings of IJCAI'03 Workshop on Nonmonotonic Reasoning, Action, and Change (NRAC-03), 2003.

PRESENTATIONS AND TALKS

CONFERENCE/WORKSHOP PRESENTATIONS

1. The 9th International Symposium on Logical Formalizations of Commonsense Reasoning, 2009.
2. The 23rd AAAI Conference on Artificial Intelligence (AAAI-08), 2008.
3. The 7th IJCAI International Workshop on NRAC, 2007.
4. The 20th International Joint Conference on Artificial Intelligence, 2007.
5. The AAAI-06 workshop on AI-Driven Technologies for Services-Oriented Computing, 2006.
6. The ECAI'06 Workshop on AI-Driven Technologies for Composition Services, 2006.
7. The third European Starting AI Researcher Symposium, 2006.
8. The first North East Student Colloquium on Artificial Intelligence, 2006.
9. The IJCAI'03 International Workshop on NRAC, 2003.

OTHER TALKS

10. Invited talk "*Benefit from Grace Hopper Celebration of Women in Computing and Being a Graduate Student*" at Dept. of Computer Science, Ryerson University, March 2008.
11. "*Decidable Reasoning in a Modified Situation Calculus*" in the Grace Hopper Celebration of Women in Computing 2007 and the ACM Student Research Competition at GHC-07, 2007.

SELECTED WORKING EXPERIENCES

COURSE INSTRUCTOR

Responsibilities: conducting lectures, holding office hours, preparing tutorial materials, assigning TA jobs, designing assignments and exams.

1. Dept. of Computer Science, **University of Toronto**, Sept. 2009 – Dec. 2009
Course: CSC324 Principles of Programming Languages
2. Dept. of Electrical and Computer Engineering, **University of Toronto**, Sept. 2009 – Dec. 2009
Course: CSC326 Programming Languages
3. Dept. of Computer Science, **University of Toronto**, May 2006 – Aug. 2006

Course: CSC165 Mathematical Expression and Reasoning for Computer Science

TEACHING ASSISTANTSHIPS

Responsibilities: conducting tutorials, holding office hours, leading lab sessions, grading assignments and exams.

1. **University of Toronto (St. George Campus)** Sept. 2000 – April 2010
 - CSC104 The How and Why of Computing (2002 Winter)
 - CSC209 Software Tools and Systems Programming (2002 Fall, 2004 Winter, 2010 Winter)
 - CSC236 Introduction to the Theory of Computation (2004 Fall, 2006 Winter)
 - CSC238 Discrete Mathematics for Computer Science (2000 Fall, 2002 Summer)
 - CSC270 Fundamental Data Structures and Techniques (2001 Summer)
 - CSC364 Computational Complexity and Computability (2003 Summer)
 - CSC465/CSC2104 Formal Methods of Program Design [**graduate course**] (2001 Fall, 2003 Fall)
 - CSC2509 Data Management Systems [**graduate course**] (2003 Winter)
2. **University of Toronto (Scarborough Campus)** Sept. 2004 – May 2007
 - CSCA02 The How and Why of Computing (2004 Fall, 2005 Winter & Fall, 2006 Fall, 2007 Winter)
3. **University of Toronto (Mississauga Campus)** Jan. 2002 – April 2010
 - CSC148 An Introduction to Computer Science (2010 Winter)
 - CSC384 An Introduction to Artificial Intelligence (2010 Winter)
 - CSC104 The How and Why of Computing (2008 Fall)
 - CSC354 Systems Modeling and Discrete Simulation (2002 Winter)
4. **Ryerson University**, Sept. 2003 – Dec. 2009
 - CP8201 Computability and Logic [**graduate course**] (2008 Fall)
 - CPS616 Analysis of Algorithms (2007 Winter)
 - CPS720 Selected Topics in Artificial Intelligence (2003 Fall)
 - CPS721 Artificial Intelligence (2004 Winter, 2006 Fall)
5. **University of Ottawa**, Sept. 1999 – April 2000
 - MAT1320 Calculus I (1999 Fall, 2000 winter)
 - MAT1341 Introduction to Linear Algebra (2000 Summer)
6. **Nanjing University**, Sept. 1996 – Aug. 1999
 - Mathematical Analysis (1996 Fall, 1998 Fall)
 - Linear Algebra (1997 Fall)

PROFESSIONAL AFFILIATIONS AND SERVICES

- Program committee member and paper reviewer, the 9th International Symposium on Logical Formalizations of Commonsense Reasoning (Commonsense 2011), November 2010.

- Paper reviewer, the 24th AAAI Conference on Artificial Intelligence (AAAI 2010), 2010.
- Paper reviewer and local organizer, the 12th International Conference on Principles of Knowledge Representation and Reasoning (KR 2010), 2009 - 2010.
- Student volunteer, the 21th International Joint Conference on Artificial Intelligence, July 2009.
- Paper reviewer, North East Student Colloquium on Artificial Intelligence, 2006 – 2007.
- Cognitive Robotics (COGROBO) group member, CS Dept., University of Toronto, 2000 – 2010.
- CoGS Group Coordinator, CS Dept., University of Toronto, Sept. 2003 – Jan. 2004. I was responsible for organizing meetings, scheduling presenters, and moderating group discussion.
- AAAI student member and ACM student member, 2003 – 2010.
- Regular attendant, the Semantic Technologies Laboratory led by Prof. Michael Gruninger, Department of Mechanical and Industrial Engineering at University of Toronto, 2007 – 2010.
- Student volunteer, in the 18th International Joint Conference on Artificial Intelligence, Aug. 2003.
- Research project member, Trading Agent Competition (TAC), University of Toronto, 2003.
- Research project member, National 863 Project on Tractable Problem in Computer Logic, China, 1997-1999. The project was led by Prof. Decheng Ding at Nanjing University and was funded by National Research and Science Development Bureau in China.

SOCIAL ACTIVITIES

- Led a panel discussion about graduate study and life, Ryerson University, 2008.
- Volunteer work on the 2006 Ontario Universities' Fair at the Booth of Ryerson University, 2006.
- Student mentor, CS Dept., University of Toronto, 2001 – 2008.
- Chairman of the Chinese graduate students' community, Dept. of Computer Science, University of Toronto, 2002 – 2004.
- Organizer for raising donations at University of Toronto for SARS patients in China, 2003.
- Jiangsu Province 1998 University Students' Chinese Painting Competition, 2nd place winner, 1998.
- Elected vice-chairman of the Student Union in the Math Dept at Nanjing University, 1993-1995.