

Sophia KNIGHT

CONTACT INFORMATION	Department of Computer Science University of Minnesota Duluth Duluth, Minnesota, USA	sophia.knight@gmail.com http://www.lix.polytechnique.fr/~sophia/
EDUCATION	Ecole Polytechnique <i>Ph.D. in Computer Science</i> Financed by an INRIA grant Thesis: The Epistemic View of Concurrency Theory Supervisors: Catuscia Palamidessi and Frank Valencia Rapporteurs: Larry Moss, Vijay Saraswat and Björn Victor	Palaiseau, France September 2013
	McGill University <i>M.Sc. in Computer Science</i> Thesis: Epistemic Strategies and Games on Concurrent Processes Supervisor: Prakash Panangaden	Montréal, Québec October 2009
	McGill University <i>B.A. in Computer Science and Philosophy</i> <i>with a Minor in Mathematics</i>	Montréal, Québec October 2006
EMPLOYMENT	Assistant Professor , University of Minnesota Duluth Duluth, Minnesota, USA Post-doc , Uppsala University, Uppsala, Sweden Post-doc , CNRS, LORIA, Université de Lorraine Nancy, France Ph.D. Student , INRIA, LIX, Ecole Polytechnique Palaiseau, France	August 2018- <i>present</i> March 2016-July 2018 September 2013-January 2016 September 2010-September 2013
HONOURS & AWARDS	Prix de Thèse de l'École Polytechnique (Ecole Polytechnique Thesis Prize), for the- sis "The Epistemic View of Concurrency Theory," 2014.	
REFEREED JOURNAL ARTICLES	S. Knight, B. Maubert and F. Schwarzentruher. <i>Reasoning about Knowledge and Mes- sages in Asynchronous Multi-agent Systems</i> . Mathematical Structures in Computer Science, pp. 1-42, November 2017. http://doi.org/10.1017/S0960129517000214 H. van Ditmarsch, S. Knight and A. Özgün. <i>Private Announcements on Topological Spaces</i> . Studia Logica, Springer, pp. 1-33, 2017. https://doi.org/10.1007/s11225-017-9750-z H. van Ditmarsch, S. Knight and A. Özgün. <i>Announcement as Effort on Topological Spaces</i> . Synthese, Springer, pp. 1-43, 2017. https://doi.org/10.1007/s11229-017-1592-8 K. Chatzikokolakis, S. Knight, C. Palamidessi and P. Panangaden. <i>Epistemic Strate- gies and Games on Concurrent Processes</i> . ACM Transactions on Computational Logic, 13(4): 28:1-28:35, 2012.	
REFEREED CONFERENCE PUBLICATIONS	S. Knight, B. Maubert and F. Schwarzentruher. <i>Asynchronous Announcements in a Pub- lic Channel</i> . ICTAC 2015, Springer, LNCS 9399, pp. 272-289, 2015.	

H. van Ditmarsch, S. Knight and A. Özgün. *Announcement as Effort on Topological Spaces*. TARK 2015, EPTCS 215, pp. 283-297, 2015.

H. van Ditmarsch and S. Knight. *Partial Information and Uniform Strategies*. Proceedings of CLIMA '14, Springer, LNCS 8624, pp. 183-194, 2014.

H. van Ditmarsch, S. Knight and A. Özgün. *Arbitrary Announcements on Topological Subset Spaces*. Proceedings of EUMAS '14, Springer, LNCS 8953, pp. 252-266, 2014.

N. Ferns, D. Precup and S. Knight. *Bisimulation for Markov Decision Processes through Families of Functional Expressions*. Horizons of the Mind. A Tribute to Prakash Panangaden, Springer, LNCS 8464, pp. 319-342, 2014.

S. Knight, C. Palamidessi, P. Panangaden and F. Valencia. *Spatial and Epistemic Modalities in Constraint-Based Process Calculi*. Proceedings of CONCUR '12, Springer, LNCS 7454, pp. 317-332, 2012.

S. Knight, R. Mardare and P. Panangaden. *Combining Epistemic Logic and Hennessy-Milner Logic*, in Dexter Kozen's Festschrift published as Logic and Program Semantics, Springer, LNCS 7230, eds. Robert Constable and Alexandra Silva, pp. 219-243, 2012.

K. Chatzikokolakis, S. Knight and P. Panangaden. *Epistemic Strategies and Games on Concurrent Processes*. Proceedings of SOFSEM '09, Springer, LNCS 5404, pp. 153-166, 2009.

WORKSHOP PAPERS

S. Knight, B. Maubert and F. Schwarzentruher. *Asynchronous Broadcast Logic*. Formal Methods & Logical Aspects of multi-agent systems. Stockholm, Sweden, July 2018.

S. Knight and B. Maubert. *Epistemic Strategy Logic*. Workshop on Formal Methods in Artificial Intelligence, University of Naples Federico II. Naples, Italy, February 2017.

S. Knight and B. Maubert. *Dealing with Imperfect Information in Strategy Logic*. 3rd International Workshop on Strategic Reasoning. Oxford, England, September 2015.

S. Knight. *A Strategic Epistemic Logic for Bounded Memory Agents*. Workshop on Logics for Resource-Bounded Agents, ESSLLI. Barcelona, Spain, August 2015.

S. Knight. *The Epistemic View of Concurrency Theory*. Forum des Jeunes Mathématicien-ne-s. Lyon, France, November 2013.

S. Knight, C. Palamidessi, P. Panangaden and F. Valencia. *Spatial and Epistemic Modalities in Constraint-Based Process Calculi*. Highlights of Logic, Games and Automata (Highlights). Paris, France, September 2013.

K. Chatzikokolakis, S. Knight, C. Palamidessi and P. Panangaden. *Game Semantics and Epistemic Strategies for Concurrent Processes*. Workshop on Games, Logic and Security (GIPSy). Rennes, France, November 2010.

K. Chatzikokolakis, S. Knight, C. Palamidessi and P. Panangaden. *Games on Concurrent Processes: Epistemic Strategies*. 6th International Workshop on Security Issues

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in Concurrency (SecCo). Toronto, Canada, August 2008.

EDITED SPECIAL ISSUES OF JOURNALS

Editor, M. Bartoletti, L. Henrio, S. Knight, H. Torres Vieira: Special issue on Interaction and Concurrency Experience 2016. JLAMP vol. 92, 2017.

Editor, I. Lanese, A. Lluch-Lafuente, S. Knight, H. Torres Vieira: Special issue on Interaction and Concurrency Experience 2015. JLAMP. 86(1): 1, 2017.

EDITED PROCEEDINGS

Editor, M. Bartoletti, L. Bocchi, L. Henrio, S. Knight: Proceedings 11th Interaction and Concurrency Experience, ICE 2018, Madrid, Spain, 20-21 June 2018. EPTCS 279, 2018.

Editor, M. Bartoletti, L. Bocchi, L. Henrio, S. Knight: Proceedings 10th Interaction and Concurrency Experience, ICE 2017, Neuchâtel, Switzerland, 21-22 June 2017. EPTCS 261, 2017.

Editor, M. Bartoletti, L. Henrio, S. Knight, H. Torres Vieira: Proceedings 9th Interaction and Concurrency Experience, ICE 2016, Heraklion, Greece, 8-9 June 2016. EPTCS 223, 2016.

Editor, S. Knight, I. Lanese, A. Lluch-Lafuente, H. Torres Vieira: Proceedings 8th Interaction and Concurrency Experience, ICE 2015, Grenoble, France, 4-5th June 2015. EPTCS 189, 2015.

STUDENT SUPERVISION

April 2016-September 2017: Cosupervisor for PhD student Michell Guzmán on topic "Distributed Knowledge in Spatial Constraint Systems," with Professor Frank Valencia at École Polytechnique, Palaiseau, France

January 2014 - December 2015: Cosupervisor for PhD student Aybüke Özgün on topic "Topological Semantics for Dynamic Epistemic Logics" with Professor Hans van Ditmarsch at Université de Lorraine, Nancy, France

Spring 2012: Cosupervisor for Masters student Andrés Felipe Barco Santa on topic "A Spatial and Epistemic Concurrent Constraint Interpreter" with Professor Frank Valencia at École Polytechnique, Palaiseau, France

TEACHING EXPERIENCE

University of Minnesota Duluth

Automata Theory and Formal Languages, undergraduate computer science course, Fall 2018

Open University, Future Learn and European Data Science Academy

Facilitator, Advanced Machine Learning, MOOC, Spring 2018

Uppsala University

Teaching Assistant, Artificial Intelligence, masters computer science course, Autumn 2016.

McGill University

Teaching assistant, Theoretical Aspects of Computer Science, undergraduate computer science course, Autumn 2006, 2007 and 2008.

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Teaching assistant, Intermediate Logic, undergraduate and masters philosophy course, Winter 2007, 2008 and 2009.

Teaching assistant, History and Philosophy of Computing, undergraduate computer science course, Winter 2007 and 2008.

Undergraduate teaching assistant, Mathematical Logic, undergraduate mathematics course, Autumn 2003, 2004 and 2005.

Undergraduate teaching assistant, Discrete Mathematics, undergraduate mathematics course, Winter 2004, 2005 and 2006.

Undergraduate teaching assistant, History and Philosophy of Mathematics, undergraduate mathematics course, Autumn 2005.

SERVICE

Co-chair, 11th Interaction and Concurrency Experience (ICE), 2018.

Program committee member, 25th Workshop on Logic, Language, Information and Computation (WOLLIC), 2018.

Program committee member, Student Session, European Summer School in Logic, Language and Information, Logic and Computation track (ESSLLI StuS LoCo), 2018.

Co-chair, 10th Interaction and Concurrency Experience (ICE), 2017.

Program committee member, Formal Techniques for Distributed Objects, Components and Systems (FORTE) 2017.

Program committee member, Student Session, European Summer School in Logic, Language and Information, Logic and Computation track (ESSLLI StuS LoCo), 2017.

Co-chair, 9th Interaction and Concurrency Experience (ICE), 2016.

Program committee member, Student Session, European Summer School in Logic, Language and Information, Logic and Computation track (ESSLLI StuS LoCo), 2016.

Co-chair, 8th Interaction and Concurrency Experience (ICE), 2015.

Program committee member, Young Researchers Workshop on Concurrency Theory (YR-CONCUR), 2015.

Program committee member, Student Session, European Summer School in Logic, Language and Information, Logic and Computation track (ESSLLI StuS LoCo), 2014.

Program committee member, 7th Interaction and Concurrency Experience (ICE), 2014.

Reviewer for Journal of Applied Non-Classical Logics, CONCUR 2017, SR 2017, TARK 2017, CONCUR 2016, AAMAS 2016, ISMVL 2016, ESSLLI student session 2016, IC-TAC 2015, JLAMP special issue for ICE 2014, CLIMA 2014 special issue, AAI 2014, AiML 2014, CSL-LICS 2014, FSTTCS 2014, KR 2014, CONCUR 2013, CONCUR

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- 2012, MSCS special issue for EXPRESS 2011, Studia Logica, and CONCUR 2010.
- GRANTS Workshop grant from Microsoft Research-INRIA Joint Centre to support 8th Interaction and Concurrency Experience workshop, June 2015.
- INRIA PhD grant, September 2010-September 2013.
- Aide à la mobilité grant for the project “Common knowledge in systems of multiple computing agents,” July-August 2013.
- Aide à la mobilité grant for the project “A formalism for reasoning about knowledge in systems of multiple computing agents,” November 2011.
- TRAINING **Academic Teacher Training Course**, full time five week pedagogics course, Uppsala University, Jan.-Feb. 2017.
- VR Grant Workshop**, one day workshop on applying for grants from the Swedish Research Council, Uppsala University, March 2017.
- Marie Curie Grant Seminar**, half day workshop on Marie Curie grants from the EU, Uppsala University, August 2017.
- Uppsala University Grants Day**, one day workshop about different scientific grants and principles for successful grant applications, Uppsala University, November 2017.
- French courses, Ecole Polytechnique**, individual tutoring, two hours per week, Ecole Polytechnique, Palaiseau, France, January 2011 through December 2012.
- Cours de français niveau B2, Immigration Québec**, French courses, 15 hours per week, January through June 2010.
- PRESENTATIONS *Modal Logics for Artificial Intelligence: Logics of Knowledge and Strategic Behavior*. Guest lecture for Artificial Intelligence course, Uppsala University, Uppsala, Sweden, October 2017.
- Knowledge and Distributed Knowledge in a Constraint-based Process Calculus*. Seminar for Theory Group, Queen Mary University, London, United Kingdom, April 2017.
- Modal Logics for Artificial Intelligence: Logics of Knowledge and Strategic Behavior*. Guest lecture for Artificial Intelligence course, Uppsala University, Uppsala, Sweden, October 2016.
- Partial Information and Uniform Strategies: Developing an Epistemic Logic of Strategic Abilities*. Seminar for Concurrency Group, Uppsala University, Uppsala, Sweden, August 2015.
- Asynchronous Public Announcement Logic*. Prakashfest. Oxford, United Kingdom, May 2014.

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Spatial and Epistemic Modalities in Constraint-Based Process Calculi. Seminar at Institut de Recherche en Informatique et Systèmes Aléatoires (IRISA). Rennes, France, March 2014.

Spatial and Epistemic Modalities in Constraint-Based Process Calculi. Seminar for Preuves, Programmes et Systèmes (PPS) group at Université Paris-Diderot-Paris 7. Paris, France, February 2014.

Spatial and Epistemic Modalities in Constraint-Based Process Calculi. Seminar for Theory for Mobile Processes group at Uppsala University. Uppsala, Sweden, May 2013.

Branching-time Temporal Epistemic Logic. 26th Conference on the Mathematical Foundations of Programming Semantics (MFPS). Ottawa, Canada, May 2010.

A Logic of Anonymity. McGill University School of Computer Science Undergraduate Student Research Symposium, Montréal, Québec, August 2006.

A Probabilistic Logic. McGill INRIA Workshop for PRINTEMPS Project: Probability and Information Theory for modelling Security, Privacy and Secrecy. Montréal, Québec, June 2006.

ACTIVITIES

Nordic Logic Sumer School, August 2017, Stockholm, Sweden

Member, Concurrency group, Uppsala University

Member, Gender Equality group, Uppsala University

Former member, CELLO team, LORIA, Université de Lorraine

European Summer School in Logic, Language and Information, August 2015, Barcelona, Spain

Former member, Comète Team, Ecole Polytechnique

European Summer School in Logic, Language and Information, August 2012, Opole, Poland

European Summer School in Logic, Language and Information, August 2011, Ljubljana, Slovenia

Former member, Reasoning and Learning Laboratory at McGill University

Former member, Printemps collaborative project (Probability and Information Theory for modelling Security, Privacy and Secrecy)

LANGUAGES

English, native speaker.

French, proficient, C1 level.