

# Curriculum Vitae

Prof. dr. Davide Grossi

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## Personal Details, Employment, Education

Name Davide Grossi  
 Date of birth 20.04.1979  
 Place of birth Udine  
 Italy  
 Work address University of Groningen  
 Bernoulli Institute for Mathematics, Computer Science and Artificial Intelligence  
 Groningen, NL  
 E-mail [d.grossi@rug.nl](mailto:d.grossi@rug.nl)  
 Website <http://www.davidegrossi.me>

### Employment

2019 - present *Associate Professor*  
 Amsterdam Law School  
 Institute for Logic, Language and Computation, University of Amsterdam  
 2017 - present *Associate Professor* (adjunct hoogleraar)  
 Bernoulli Institute, University of Groningen  
 2015 - 2017 *Senior Lecturer* (associate professor)  
 Department of Computer Science, University of Liverpool  
 2011 - 2015 *Lecturer* (assistant professor)  
 Department of Computer Science, University of Liverpool  
 2009 - 2011 *Postdoctoral Researcher*  
 Institute for Logic, Language and Computation, University of Amsterdam  
 2008 *Postdoctoral Researcher*  
 Computer Science and Communications, University of Luxembourg

### Education

2003 - 2007 PhD degree in Computer Science, Utrecht University  
 Awarded on 17th September, 2007  
 Promotor: Prof. John-Jules Ch. Meyer  
 1998 - 2003 Diploma di licenza (*cum laude*) in Philosophy, Scuola Normale Superiore di Pisa  
 Awarded on 1st March, 2004  
 Supervisor: Prof. Ettore Casari  
 1998 - 2003 MSc degree (*cum laude*) in Philosophy, University of Pisa  
 Awarded on 15th April, 2003  
 Supervisors: Prof. Massimo Barale and Prof. Ettore Casari

### Teaching Qualifications

2014 - now Fellow of the Higher Education Academy (UK)  
 2011 - 2014 Certificate in Professional Studies in Learning & Teaching in Higher Education  
 Awarded (with Merit) on 8th May 2014 (BKO equivalent)

### Languages

Italian (native), English (fluent), Dutch (fluent), German (basic), French (basic)

## Research

## Publications

I am (co-)author of over 60 international peer-reviewed publications, including papers at highly selective conferences in Artificial Intelligence (IJCAI, KR, AAMAS, ECAI, TARK) and established journals in Artificial Intelligence (JAIR, JAAMAS), in Logic (JLC), Philosophy (Synthese, Theoria) as well as Cognitive Sciences (Neuroscience).

## Books

1. D. Grossi and Gabriella Pigozzi. *Judgment Aggregation: A Primer*. Synthesis Lectures on Artificial Intelligence and Machine Learning. Morgan & Claypool, 151 pages, 2014
2. F. Cariani, D. Grossi, J. Meheus, X. Parent (eds.) *Proceedings of the 12th International Conference on Deontic Logic and Normative Systems (DEON'14)*, LNCS 8554, Springer, 2014
3. D. Grossi, O. Roy and H. Huang (eds.). *Proceedings of the 4th International Workshop on Logic, Rationality and Interaction (LORI-4)*, LNCS 8196, Springer, 2013

## Journals

1. U. Grandi, D. Grossi, P. Turrini. *Negotiable Votes. Pre-vote Negotiations in Binary Voting with Non-Manipulable Rules*. Journal of Artificial Intelligence Research (JAIR), Volume 64, 2019, pp. 895-929
2. D. Grossi, S. Modgil. *On the Graded Acceptability of Arguments in Abstract and Instantiated Argumentation*. Artificial Intelligence Journal (AIJ), Volume 275, 2019, pp. 138-173
3. A. Pazienza, S. Ferilli, F. Grasso, D. Grossi, R. Palmieri. *An Abstract Argumentation Approach for the Prediction of Analysts' Recommendations following Earnings Conference Calls*. Intelligenza Artificiale, Volume 13(2), 2019, pp. 173-188
4. J. Powell-Greig, D. Grossi, R. Corcoran, F. Gobet, M. Garcia-Finana. *The Neural Correlates of Theory of Mind and their Role during Empathy and the Game of Chess: A functional Magnetic Resonance Imaging Study*. Neuroscience, 2017
5. G. Aucher, J. van Benthem, D. Grossi. *Sabotage Modal Logic Revisited*. Journal of Logic and Computation, 2017
6. D. Grossi, W. van der Hoek, C. Moyzes, M. Wooldridge. *Program Models and Semi-Public Environments*. Journal of Logic and Computation, Oxford University Press, 2016
7. D. Grossi and P. Turrini. *On the Rationality of Short-Sighted Players—Towards an Epistemic Analysis*. Studies in Logic, 8(4). Chinese Association of Logic, 2016
8. D. Grossi, E. Lorini and F. Schwarzentruber. *The Ceteris Paribus Structure of Logics of Game Forms*. Journal of Artificial Intelligence Research (JAIR), volume 53, 2015, p. 91-126
9. D. Grossi and F. Velazquez-Quesada. *Syntactic Awareness in Logical Dynamics*. Synthese, 192(12), 2015, p. 4071-4105
10. P. Turrini, D. Grossi, J. Broersen, J.-J. Meyer. *Forbidding Undesirable Agreements*. Journal of Logic and Computation, 25(1), Oxford University Press, 2013, p. 159-178

11. J. van Benthem, D. Grossi and F. Liu. *Priority Structures in Deontic Logic*. Theoria, 80(2) 2013, p. 116–152
12. D. Grossi. *Abstract Argument Games via Modal Logic*. Synthese, 190(5), 2013, p. 5–29
13. M. Dastani, D. Grossi, J.-J. Ch. Meyer. *A Logic for Normative Multi-Agent Programs*. Journal of Logic and Computation, 23(2), Oxford University Press, 2011, p. 332–354
14. D. Grossi and P. Turrini. *Dependence in Games and Dependence Games*. Journal of Autonomous Agents and Multi-Agent Systems, Springer 2012, 25(2), 284–312
15. D. Grossi. *Norms as Ascriptions of Violations: An Analysis in Modal Logic*. Journal of Applied Logic, Elsevier, 2011, 9(2), p. 95–112
16. D. Grossi, J.-J. Ch. Meyer, F. Dignum. *The Many Faces of Counts-as: A Formal Analysis of Constitutive Rules*. Journal of Applied Logic, Elsevier, 2008, 6(2), 192–217
17. D. Grossi, L. Royakkers, F. Dignum. *Organizational Structure and Responsibility: An Analysis in a Dynamic Logic of Organized Collective Agency*. Journal of Artificial Intelligence & Law, Springer 2007, 12 (2-3), p. 223–249
18. D. Grossi, J.-J. Ch. Meyer, F. Dignum. *Classificatory Aspects of Counts-as: An Analysis in Modal Logic*. Journal of Logic and Computation, Oxford University Press, 2006, 16(5), p. 613–643
19. D. Grossi, H. Aldewereld, J. Vazquez-Salceda, F. Dignum. *Ontological Aspects of the Implementation of Norms in Agent-Based Electronic Institutions*. Journal of Computational and Mathematical Organization Theory, Springer 2006, 12 (2-3), p. 251–275

### High-Profile Conference Proceedings

1. D. Bloembergen, D. Grossi, M. Lackner. *On Rational Delegations in Liquid Democracy*. Proceedings of AAAI'19, 2019
2. D. Grossi and S. Rey. *Credulous Acceptability, Poison Games and Modal Logic: Extended Abstract*. Proceedings of AAMAS'19, 2019
3. Z. Christoff and D. Grossi. *Binary Voting with Delegable Proxy: An Analysis of Liquid Democracy*. 16th Conference on Theoretical Aspects of Rationality and Knowledge (TARK'17), EPTCS, 2017, p. 134–150
4. D. Grossi, A. Herzig, W. van der Hoek and C. Moyzes. *Non-Determinism and the Dynamics of Knowledge*. Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI'17), AAAI Press, 2017, p. 1053-1059
5. D. Grossi, E. Lorini and F. Shwarzentruber. *The Ceteris Paribus Structure of Logics of Game Forms (Extended Abstract)*. Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI'17), AAAI Press, 2017, p. 5000-5004
6. U. Grandi, D. Grossi and P. Turrini. *Equilibrium Refinement through Negotiation in Binary Voting*. Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI'15), AAAI Press, 2015, p. 540–546
7. D. Grossi and S. Modgil. *On the Graded Acceptability of Arguments*. Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI'15), AAAI Press, 2015, p. 868–874

8. F. Belardinelli, D. Grossi and A. Lomuscio. *Finite Abstractions for the Verification of Epistemic Properties in Open Multi-Agent Systems*. Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI'15), AAAI Press, 2015, p. 854–860
9. F. Belardinelli, D. Grossi and N. Maudet. *Formal Analysis of Dialogues on Infinite Argumentation Frameworks*. Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI'15), AAAI Press, 2015, p. 861–867
10. K. Apt, D. Grossi and W. van der Hoek. *Epistemic Protocols for Distributed Gossiping*. Proceedings of the 15th Conference on Theoretical Aspects of Rationality and Knowledge (TARK'15), EPTCS, 2015, p. 51–66
11. F. Belardinelli and D. Grossi. *On the Formal Verification of Diffusion Phenomena in Open Dynamic Agent Networks*. International Conference on a Autonomous Agents and Multi-agent Systems (AAMAS'15), IFAAMAS, 2015, p. 237–245
12. D. Grossi and W. van der Hoek. *Justified Beliefs by Justified Arguments*. Proceedings of the 14th International Conference on Principles of Knowledge Representation and Reasoning (KR'14), AAAI Press, 2014
13. M. Attamah, H. van Ditmarsch, D. Grossi and W. van der Hoek. *Knowledge and Gossip*. Proceedings of the 21st European Conference on Artificial Intelligence (ECAI'14), IOS Press, 2014, p. 21–26
14. D. Grossi and Wiebe van der Hoek. *Audience-Based Uncertainty in Abstract Argument Games*. Proceedings of the 23rd Joint Conference on Artificial Intelligence (IJCAI'13), AAAI Press, 2013, p. 143–149
15. D. Grossi, E. Lorini and F. Shwarzentruber. *Ceteris Paribus Structure in Logics of Game Forms*. Proceedings of the 15th Conference on Theoretical Aspects of Rationality and Knowledge (TARK'13), 2013
16. D. Grossi. *Fixpoints and Iterated Updates in Abstract Argumentation*. In Proceedings of the 13th International Conference on Principles of Knowledge Representation and Reasoning (KR'12), 2012
17. D. Grossi and P. Turrini. *Short-Sight in Extensive Games*. In V. Conitzer and M. Winikoff, editors, Proceedings of the 11th International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'12). IFAAMAS, 2012, p. 805–812
18. D. Grossi and P. Turrini. *Dependence Theory via Game Theory*. In W. van der Hoek, G. Kaminka, Y. Lesperance, M. Luck and S. Sandip (eds.). Proceedings of the 9th International Conference on Autonomous Agents and Multiagent Systems (AAMAS'10), IFAAMAS 2010, p. 1147–1154
19. D. Grossi. *On the Logic of Argumentation Theory*. In W. van der Hoek, G. Kaminka, Y. Lesperance, M. Luck and S. Sandip (eds.). Proceedings of the 9th International Conference on Autonomous Agents and Multiagent Systems (AAMAS'10), IFAAMAS 2010, pp. 409–416
20. D. Grossi. *Unifying Preference and Judgment Aggregation*. In P. Decker, J. Sichman, C. Sierra and C. Castelfranchi (eds.). Proceedings of the Eighth International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'09), IFAAMAS 2009, p. 217–224
21. L. Penserini, F. Dignum, V. Dignum, H. Aldewereld, D. Grossi. *Evaluating Organizational Configurations*. Proceedings of 2009 IEEE/WIC/ACM International Conference on Web Intelligence (Volume 2), IEEE Computer Society 2009, p. 153–160

22. D. Grossi, F. Dignum, J.-J. Ch. Meyer. *A Formal Road from Institutional Norms to Organizational Structures*. In Proceedings of the 6th International Conference on Agents and Multiagent Systems (AAMAS'07). IFAAMAS 2007, p. 616–623
23. D. Grossi, F. Dignum, L. Royakkers, M. Dastani. *Foundations of Organizational Structures in Multi-Agent Systems*. In Proceedings of the Fourth International Conference on Autonomous Agents and Multiagent Systems (AAMAS'05), ACM Press 2005, p. 690–697

### Other Conference and Workshop Proceedings

1. Z. Christoff and D. Grossi. *Stability in Binary Opinion Diffusion*. Accepted for the 6th International Workshop on Logic, Rationality and Interaction (LORI'17), LNCS Springer, 2017, p. 166-180
2. G. Aucher, J. van Benthem and D. Grossi. *Sabotage Modal Logic: Some Model and Proof-theoretic Aspects*. Proceedings of the 5th International Workshop on Logic, Rationality and Interaction (LORI-5), LNCS 9394, Springer 2015, p. 1–13
3. M. Attamah, H. van Ditmarsch, D. Grossi and W. van der Hoek. *A Framework for Epistemic Gossip Protocols*. Proceedings of the 12th European Conference on Multi-agent Systems (EUMAS'14), LNCS 8953, Springer 2015, p. 193–209
4. Z. Salah, F. Coenen, D. Grossi. *Extracting Debate Graphs from Parliamentary Transcripts*. A Study Directed at the UK House of Commons Debates. Proceedings of the Fourteenth International Conference on Artificial Intelligence and Law (ICAIL'13), ACM Press, 2013, pp. 121-130
5. Z. Salah, F. Coenen and D. Grossi. *Generating Domain-Specific Sentiment Lexicons for Opinion Mining*. Proceedings of the 9th International Conference on Advanced Data Mining and Applications. LNCS 8346, Springer, 2013, p. 13–24
6. D. Grossi and G. Pigozzi. *Introduction to Judgment Aggregation*. In: N. Bezhanishvili and V. Goranko (eds.), Lectures on Logic and Computation (ESSLLI'10/'11 Selected Lecture Notes), LNCS 7388, Springer 2012, pp. 160–209
7. D. Grossi. *An Application of Model Checking Games to Abstract Argumentation*. In: H. van Ditmarsch, J. Lang and S. Ju. Proceedings of the 3rd International Workshop on Logic, Rationality and Interaction (LORI'11), LNAI 6953, Springer 2011, p. 74–86
8. D. Grossi. *Argumentation in the View of Modal Logic*. In: P. McBurney, I. Rahwan and S. Parsons (eds.), Post-proceedings of the 7th International Workshop on Argumentation in Multi-Agent Systems, LNAI 6614, Springer 2011, p. 190–208
9. J. van Benthem, D. Grossi, F. Liu. *Deontics = Betterness + Priority*. In G. Governatori and G. Sartor, Proceedings of the 10th International Conference on Deontic Logic in Computer Science (DEON'10), LNAI 6181, Springer 2010, pp. 50–65
10. P. Turrini, D. Grossi, J.-J. Ch. Meyer, J. Broersen. *Forbidding Undesirable Agreements*. In G. Governatori and G. Sartor (eds.), Proceedings of the 10th International Conference on Deontic Logic in Computer Science (DEON'10), LNAI 6181, Springer 2010, p. 306–322
11. D. Grossi. *Correspondences in the Theory of Aggregation*. In: G. Bonanno, B. Loewe, W. van der Hoek (eds.) Logic and the Foundations of Game and Decision Theory (LOFT'10), Revised and selected papers. LNCS 6006, Springer 2010, pp. 34–60
12. L. Penserini, F. Dignum, V. Dignum, H. Aldewereld, D. Grossi. *Evaluating Organizational Configurations*. Proceedings of 2009 IEEE/WIC/ACM International Conference on Web Intelligence (Volume 2), Milano, Italy, September 2009, p. 153–160

13. M. Dastani, D. Grossi, N. Tinnemeier, J.-J. Ch. Meyer. *Normative Multi-agent Programs and Their Logics*. In J.-J. Ch. Meyer and J. Broersen (eds.), Knowledge Representation for Agents and Multi-Agent Systems (Proceedings KRAMAS 2008), LNAI 5605, Springer, 2009, p. 16–31
14. G. Aucher, D. Grossi, A. Herzig, E. Lorini. *Dynamic Context Logic*. In X. He, J. Horty, and E. Pacuit (eds.), Logic, Rationality and Interaction: Second International Workshop (Proceedings LORI 2009), LNAI 5834, Springer, 2009, pp. 15–26
15. D. Grossi, F. Velazquez-Quesada. *Twelve Angry Men: A Study on the Fine-grain of Announcements*. In X. He, J. Horty, and E. Pacuit (eds.), Logic, Rationality and Interaction: Second International Workshop (Proceedings LORI 2009), LNAI 5834, Springer, 2009, pp. 147–170
16. D. Grossi. Pushing Anderson’s Envelope. *The Modal Logic of Ascription*. R. van der Meyden and L. van der Torre (eds.), Proceedings of the 9th International Conference on Deontic Logic in Computer Science (DEON’08), Luxembourg, July 2008, LNAI 5076, Springer 2008, pp. 263–277
17. C. Biagioli, D. Grossi. *Formal Aspects of Legislative Meta-Drafting*. Proceedings of the 21st International Conference on Legal Knowledge and Information Systems (JURIX’08), Florence, Italy, 10-13th December 2008, pp. 192–201
18. D. Grossi, F. Dignum, V. Dignum, M. Dastani, L. Royakkers. *Structural Aspects of the Evaluation of Agent Organizations*. In: Dignum, V., Fornara, N., Noriega, P., Boella, G., Boissier, O., Matson, E. and Vazquez-Salceda, J. (eds.) Organizations, Institutions, and Norms in Multi-agents Systems. Proceedings of COIN 2006, LNCS 4386, Springer, 2007, p. 3–18
19. D. Grossi, H. Aldewereld, F. Dignum. *Ubi Lex Ibi Poena: Designing Norm Enforcement in Electronic Institutions*. In: Dignum, V., Fornara, N., Noriega, P., Boella, G., Boissier, O., Matson, E. and Vazquez-Salceda, J. (eds.) Organizations, Institutions, and Norms in Multi-agents Systems. Proceedings of COIN 2006, LNCS 4386, Springer, 2007, p. 101–114
20. H. Aldewereld, D. Grossi, J. Vazquez-Salceda, F. Dignum. *Designing Normative Behaviour via Landmarks*. In O. Boissier, J. Padget, V. Dignum, G. Lindemann, E. Matson, S. Ossowski, J. Sichman, J. Vazquez-Salceda (eds.). Proceedings of AAMAS 2005 International Workshops on Agents, Norms and Institutions for Regulated Multi-Agent Systems, ANIREM 2005, and Organizations in Multi-Agent Systems, OOP 2005, LNCS 3913, Springer 2006, p. 157–169
21. D. Grossi, J.-J. Ch. Meyer, F. Dignum. *Counts-as: Classification or Constitution? An Answer Using Modal Logic*. In L. Goble, J.-J. Ch. Meyer (eds.). Proceedings of DEON’06, Eighth International Workshop on Deontic Logic in Computer Science, LNCS 4048, Springer, 2006, 115–130
22. D. Grossi, J.-J. Ch. Meyer, F. Dignum. *Modal Logic Investigations in the Semantics of Counts-as*. Proceedings of the Tenth International Conference on Artificial Intelligence and Law (ICAIL’05), ACM Press, 2005, p. 1–9

## Book chapters

1. M. Attamah, H. van Ditmarsch, D. Grossi and W. van der Hoek. The Pleasure of Gossip. In: Rohit Parikh on Logic, Language and Society, by C. Baskent, L. Moss and R. Ramanujam (eds.), Springer, Outstanding Contributions in Logic, Volume 11, 2017, p. 145–163
2. D. Gabbay and D. Grossi. When Are Two Arguments the Same? Equivalence in Abstract Argumentation. In: A. Baltag and S. Smets. Trends in Logic: Papers on the Work of Johan van Benthem. Springer, 2014, p. 677–701

3. D. Grossi and A. Rotolo. Logic in the Law. In: A. Gupta and J. van Benthem (eds.), *Logic and Philosophy Today*, Studies in Logic, Vol. 30, College Publications London 2011, 251–274
4. D. Grossi. Correspondences in the Theory of Aggregation. In: G. Bonanno, B. Loewe, W. van der Hoek (eds.) *Logic and the Foundations of Game and Decision Theory—LOFT 8*, Revised and selected papers. Springer 2010. LNAI 6006. pp. 34–60.
5. D. Grossi, D. Gabbay and L. van der Torre. The Norm Implementation Problem in Normative Multi-Agent Systems. In M. Dastani, K. Hindriks and J.-J. Ch. Meyer (eds.), *Specification and Verification of Multi-Agent Systems*, Springer 2010, pp. 195–224.
6. D. Grossi, F. Dignum. Structural Aspects of Agent Organizations. Chapter VIII in: V. Dignum (ed.) *Multi-Agent Systems: Semantics and Dynamics of Organizational Models*. Igi Global, 2009, pp.190–219.
7. D. Grossi, F. Dignum, J.-J. Ch. Meyer. Contextual Terminologies. In: F. Toni and P. Torroni (eds.). *Computational Logic in Multi-agent Systems*, 6th International Workshop (CLIMA VI), Revised selected and invited papers. Springer 2006. LNAI 3900. pp. 284–302.
8. D. Grossi, F. Dignum, V. Dignum, M. Dastani, L. Royakkers. Structural Aspects of the Evaluation of Agent Organizations. In: Dignum, V., Fornara, N., Noriega, P., Boella, G., Boissier, O., Matson, E. and Vázquez-Salceda, J. (eds.) *Coordination, Organizations, Institutions, and Norms in Multi-agents Systems (COIN 2006)*, Revised and selected papers. Springer 2006. LNCS 3913. pp. 3–18.

### Working papers & papers under submission

1. A. Bracciali, R. de Haan, and D. Grossi. *On the Stellar Approach to Consensus*. Working paper.
2. D. Bloembergen, D. Grossi, M. Lackner. *On Rational Delegations in Liquid Democracy*. [arXiv:1802.08020](https://arxiv.org/abs/1802.08020)
3. K. Apt, D. Grossi, W. van der Hoek. *When are Two Gossips the Same? Types of Communication in Epistemic Gossip Protocols*. Under submission, [arXiv:1807.05283](https://arxiv.org/abs/1807.05283)
4. A. Paziienza, S. Ferilli, F. Grasso, D. Grossi, R. Palmieri. *Predicting Financial Analysts' Recommendations from Earnings Conference Calls: A Computational Argumentation Approach*. Under submission.
5. U. Grandi, D. Grossi and P. Turrini. *Negotiable Votes*. Under submission.
6. G. Dari-Mattiacci and D. Grossi. *Mutual Persuasion*. Amsterdam Center for Law & Economics Working Paper No. 2016-08
7. J. van Benthem, D. Grossi, P. Turrini. *Backward Induction with Limited Foresight*. Extended version of an AAMAS'12 paper.

### Citation Metrics (as of February 2020)

Number of citations (Google Scholar):	2025
h-index (Google Scholar):	25



## Talks and Lectures

I have been invited to deliver 28 talks at international conferences and workshops, 11 of which keynotes, and 29 invited talks at research seminars of internationally renowned research centers worldwide: in the UK (Oxford University, Imperial College London, at King's College London, Royal Holloway University London, Loughborough University, University of Leicester, London School of Economics), Italy (University of Bologna), France (IRIT Toulouse, Ecole Normale Supérieure Paris, Université Paris Dauphine, Université Cergy-Pontoise), the Netherlands (University of Amsterdam, University of Utrecht), Germany (LMU Munich), Luxembourg (University of Luxembourg), Japan (NII and JAIST), China (Tsinghua University Beijing) and the US (Stanford University, both at the Philosophy and Computer Science departments, and at the Stanford Research Center).

### Invited talks and keynote lectures at international conferences and workshops

The list *excludes* my contributed talks (over 30) in which I presented work published in conference and workshop proceedings (see above list of publications).

1. Economic Design of Blockchain Protocols, 3rd Annual Delft Blockchain Symposium, 30 January 2020
2. *Foundations for Liquid Democracy*, Workshop on Judgment Aggregation and Non-classical Logics (keynote), Institute of Philosophy of the Czech Academy of Sciences, Prague, November 8-9 2019
3. *Opinion Diffusion and Consensus in Blockchain*, workshop on Deliberation, Belief Aggregation, and Epistemic Democracy II, Cergy-Pontoise, 11-13 June, 2019
4. *Foundations for Liquid Democracy*, workshop on Individual Preferences and Social Choice, University of Graz, 11-12 April, 2019
5. *A Stroll Through the Theory of Group Decisions*, Cognigron Kick-off workshop, University of Groningen, October 2018
6. *On the Graded Acceptability of Arguments*, workshop on New Directions in Reasoning about Belief and Knowledge, University of Amsterdam, 12 June 2018
7. *Iterated Aggregation on Networks: Stability and Applications*, Colloquium on Reasoning in Social Context, KNAW, Amsterdam, 29 May-1 June 2018
8. *Incentive Structures behind Consensus in Distributed Ledgers*, Polimi Fintech Journey, 10-11 May 2018
9. *Stable Opinions in Iterated Aggregation on Networks* (keynote), LABEX CIMI Workshop on Decision Support, University of Toulouse, 22-24 April 2017
10. *Liquid Democracy: an Analysis in Binary Aggregation and Diffusion*, Workshop on Theoretical Aspects of eDemocracy, 25-26 April 2017
11. *Deontic Logic Reductionism Redux* (keynote), 3rd PIOTR Workshop, University of Bayreuth, 21-22 February 2017
12. *Aggregation, Diffusion and Liquid Democracy* (keynote), Dynamics in Logic IV, TU Delft, October 2016
13. *Mutual Bayesian Persuasion* (keynote), Reasoning in Social Context, ILLC, University of Amsterdam, November 2015
14. *Negotiable Voting* (keynote), LABEX CIMI Pluridisciplinary Workshop on Game Theory, 18th-20th November 2015

15. *A Crash Course in Abstract Argumentation Theory*, Studia Logica Workshop on Logics for Social Behavior, 29 June-3 July, 2015, Delft, The Netherlands
16. *A Crash Course in Judgment Aggregation*, Lorentz Center workshop on Logics for Social Behavior, 10-14 November 2014, Leiden, The Netherlands
17. *Modal Patterns in Argumentation* (keynote), 7th International Workshop on Juris-Informatics (JURISIN'13), 27-28 October, 2013, Keio University, Yokohama, Japan
18. *Abstract Argumentation, Logic and Games* (keynote), 18th Conference Applications of Logic in Philosophy and Foundations of Mathematics 2013, Sklarska Poreba, Poland
19. *Priority Structures in Deontic Logic* (keynote), 11th International Conference on Deontic Logic in Computer Science, Bergen, Norway, 16-18 July, 2012
20. *Fixpoints and Iterated Updates in Abstract Argumentation* (keynote), ESSLLI'12 Workshop on Strategies for Learning, Belief Revision and Preference Change, Opole, Poland, August 13-17, 2012
21. *Normative Systems & Signaling Games: Preliminary Thoughts* (keynote), ESSLLI'12 Workshop on Formal Models of Communication, Opole Poland, August 13-17, 2012
22. *Fixpoints and Iterated Updates in Abstract Argumentation*, Workshop on New Trends in Logical Dynamics, Beijing University, October 8, 2011
23. *Game Theoretic Aspects of Argument*, Logic and Methodology Workshop, Stanford University, May 14-15, 2011
24. *Dependence Games*, ESSLLI'10 workshop on Logic, Rationality and Interaction, Copenhagen, August 19, 2010
25. *Dependencies in Games and Dependence Games*, ILLC workshop on Dependence Logics, University of Amsterdam, June 22, 2010
26. *Argumentation Theory and Modal Logic*, Workshop on Formal Theories of Communication, Lorentz Center, Leiden, February 25, 2010
27. *Doing Argumentation Theory in Modal Logic*, GALP symposium, University of Luxembourg, April 24, 2009
28. *The Norm Implementation Problem: Setting the Stage* (keynote), Annual meeting of the Interdisciplinary Laboratory on Interactive Knowledge Systems (ILIKS), Toulouse, December 2, 2008

### Invited talks at research seminars

1. *Ultrafilters, Dictators and Lotteries*. FSE Honours seminar series, University of Groningen, 16 December 2019
2. *Tales of Deliberation. Told by 1 Journalist, 1 Politician, 6 Comedians, 12 (Angry) Men ? and 3 Sciences*. ILLC lunch, 4 December 2019
3. *Credulous Acceptability, Poison Game and Modal Logic*, Seminar of the Institute for Logic and Computation, TU Vienna, 6 November 2019
4. *Blockchain Consensus via Trust Networks*, Distributed Systems group seminar, TU Delft, 13 September 2019
5. *Foundations for Liquid Democracy* DYCODE lecture series, University of Bayreuth, 9 April 2019

6. *Foundations for Liquid Democracy* AI Colloquium, Bernoulli Institute, University of Groningen, 4 December 2018
7. *Formal Epistemology for Distributed Ledgers?* LIRa Seminar, ILLC, University of Amsterdam, 24 May 2018
8. *Iterated Aggregation on Networks: Stability and Applications*, Ecole Normale Supérieure, Paris, 12 April 2018
9. *Foundations for Liquid Democracy*, Economic Theory Seminar, University Clergy-Pontoise, 10 April 2018
10. *Foundations for Liquid Democracy*, LAMSADE, Paris Daupine, 13th March 2018
11. *Aggregation, Diffusion and Liquid Democracy*, Department of Computer Science, Oxford University, November 2016
12. *Mutual Persuasion*, Choice Group Seminar, London School of Economics, November 2016
13. *Aggregation, Diffusion and Liquid Democracy*, Department of Computer Science, University of Leicester, November 2016
14. *Spreading Gossip Epistemically*, Seminar of the Network Theory Group, Department of Computer Science, University of Liverpool, May 2016
15. *A Crash Course in Judgment Aggregation*, Thematic Trimester in Game Theory, University of Toulouse, June 2015
16. *Spreading Gossip Epistemically*, IRIT seminar, Paul Sabatier University, June 2015
17. *A Crash Course in Judgment Aggregation*, Individual and Collective Reasoning Group Seminar, University of Luxembourg, May 2015
18. *Spreading Gossip Epistemically*, LIRa seminar, Institute for Logic Language and Computation, University of Amsterdam, April 2015
19. *Endogenous Degrees of Justification in Abstract Argumentation*, Imperial College Logic Seminar, Imperial College London, November 28, 2013
20. *A Crash Course in Judgment Aggregation*, Computer Science Seminar, Royal Holloway University London, November 27, 2013
21. *Interfaces between Epistemic Logic and Abstract Argumentation*, Japan Institute of Advanced Studies (JAIST) Seminar, 1 November, 2013
22. *Endogenous Degrees of Justification in Abstract Argumentation*, National Institute of Informatics (NII) Seminar, Japan, 30 October, 2013
23. *Norme e Strutture di Idealità*, CIRSIFID Seminar, University of Bologna, September 2013
24. *Fixpoints and Iterated Updates in Abstract Argumentation*, Oxford Advanced Seminar on Informatic Structures, Oxford University, October 2012
25. *Abstract Argumentation and Modal Logic*, Seminar of the Computer Science Department, King's College London, March, 2012
26. *Abstract Argumentation and Modal Logic*, Logic Seminar, Imperial College London, January 2012

27. *Abstract Argumentation and Modal Logic*, IRIT seminar, Toulouse, November 2011
28. *Judgment Aggregation*, Stanford Logic Group, Stanford University, June 1, 2011
29. *Dependence in Games and Dependence Games*, Artificial Intelligence Center seminar, Stanford Research Institute (SRI), June 6, 2011
30. *Argumentation and Modal Logic*, Logic and Interactive Rationality (LIRa) seminar, Faculty of Philosophy, Stanford University, April 27, 2011
31. *Semantic and Syntactic Aspects of Norms*, Logic and Interactive Rationality seminar, Faculty of Philosophy, Stanford University, April 27, 2011
32. *Argumentation Theory and Modal Logic*, Formal Theories of Communication, Lorentz Center, Leiden, February 25, 2010
33. *Doing Argumentation Theory in Modal Logic*, ISIS seminar, Utrecht University, June 24, 2009 Some Themes in the Logic of Norms, LIRa seminar, University of Amsterdam, February 19, 2009
34. *Unifying Preference and Judgment Aggregation*, PAMAS group, Oberseminar Theoretische Informatik, University of Munich, November 20, 2008

## Awards and Distinctions

- Distinguished senior PC member of IJCAI'19
- Finalist of the ERC Consolidator Grant 2019 round.
- Invited Professor (Professeur Invité), LAMSADE, Paris Dauphine, (1 month) academic year 2017/18
- My paper *The Ceteris Paribus Structure of Logic of Game Forms* (JAIR 2015) was invited for presentation to the journal track of IJCAI'17
- Finalist of the ERC Starting Grant 2014 round. My proposal was ranked in the top 13% of the 214 proposals submitted in its panel (top 11% was funded) and was “recommended for funding if sufficient funds are available”
- Visiting researcher for the Thematic Trimester of Game Theory, University of Toulouse, June 2015<sup>1</sup>
- One of the 30 UK scientists selected for the 2014 round of the Royal Society MP Pairing Scheme<sup>2</sup>
- Visiting researcher at the Japan Institute of Science and Technology, November 2013
- Visiting scholar at the Center for the Study of Language and Information, Stanford University, 2011 (spring term)
- One of ten finalists for the Christiaan Huygens Wetenschapsprijs (Christiaan Huygens Price for the Sciences) 2009, Royal Dutch Academy for the Sciences
- Best paper award at NorMAS'07 workshop, Internationales Begegnungs- und Forschungszentrum für Informatik (IBFI), Schloss Dagstuhl, Germany, March, 2007

<sup>1</sup><http://www.cimi.univ-toulouse.fr/gametheory/fr>

<sup>2</sup><http://royalsociety.org/training/pairing-scheme>

## Grants

### Main grants

- NWO Gravitation, €19M, 2020–2030. Consortium member.
- EPSRC (Engineering and Physical Sciences Research Council), £122.759, 2015–2017. Principal investigator.
- VENI grant, NWO (Netherlands Organisation for Scientific Research) €220.000 (*one of 116 awarded grants out of 644 applications*), 2009–2011. Principal investigator.
- BFR (Bourse de Formation Recherche) grant, Ministère de la Culture, de L'Enseignement Supérieur et de la Recherche, Grand-Duché de Luxembourg, €75.600, 2008. Principal investigator.

### Small grants

- Beth Foundation event sponsorship, €2000 for the organization of the 14th Conference on Logic and the Foundations of Game and Decision Theory (LOFT2020)
- SIKS event sponsorship, €1500 for the organization of the 14th Conference on Logic and the Foundations of Game and Decision Theory (LOFT2020)
- Artificial Intelligence Journal event sponsorship, €1200 for the organization of the Lorentz Workshop on Bounded Reasoning in Individuals and Groups
- EurAI (European Association for Artificial Intelligence), sponsorship €500 for the organization of TARK'17, 2017.
- EPSRC (Shaping Capability Funds), £9.964 for an interdisciplinary pilot-project with the Department of Biostatistics of the University of Liverpool, 2011. Co-investigator.
- Van Gogh Grant by 'Frans-Nederlandse Academie', €3.500 for a cooperation project with IRIT, Toulouse, France, 2011. Principal investigator.
- Grant by NWO (Netherlands Organization for Scientific Research), €2.200 for the organization of the 2nd International Workshop on Formal Models of Norm Change, University of Amsterdam, The Netherlands, 2010.
- AAMAS'07 scholarship, IFAAMAS (International Foundation for Autonomous Agents and Multiagent Systems) Grant covering travel expenses for attendance to AAMAS'06, Honolulu, US, 2006.

### Scholarships

- Scuola Normale Superiore scholarship, 1998–2002.

## Teaching

### Teaching and Supervision

I taught courses and supervised students at BSc, MSc and PhD levels. My courses consistently received excellent feedback in students' evaluations (I can provide such evaluations upon request).

#### BSc courses

1. *Artificial Intelligence 1*, University of Groningen (2017-18, 2018-19, 2019-20)
2. *Introduction to Logic*, University of Groningen (2017-18, 2018-19, 2019-20)
3. *Communicating Computer Science*, Computer Science, University of Liverpool (2016-17)
4. *Robotics & Autonomous Systems*, Computer Science, University of Liverpool (2012-13)
5. *Basiswiskunde en Logica*, Basic Mathematics and Logic (with A. Sevenster), Computer Science, University of Amsterdam (2009-10)
6. *Introduction to Artificial Intelligence* (with L. van der Torre), Computer Science, University of Luxembourg, (2007-2008)

#### MSc courses

1. *Computational Social Choice*, Artificial Intelligence, University of Groningen (2019-20)
2. *Reasoning About Action and Change*, Computer Science, University of Liverpool (2011-16, 5 editions)
3. *Introduction to Modal Logic* (with J. van Benthem), Master of Logic, University of Amsterdam (2010-11)
4. *Dynamic Epistemic Logic* (with J. van Benthem), Master of Logic, University of Amsterdam (2009-10)
5. *Formal and Game-Theoretic Aspects of Norms* (with S. Airiau), Master of Logic, University of Amsterdam (2009-10)

#### Summer schools, PhD level

1. *Introduction to Abstract Argumentation Theory*, ESLLI'12, Opole, Poland, 6–10 August 2012
2. *Introduction to Judgment Aggregation* (with Gabriella Pigozzi), ESLLI'11, Ljubliana, Slovenia, 8–12 August 2011
3. *Normative Multiagent Systems* (with Leendert van der Torre and Guido Boella), EASSS'08, New University of Lisbon, May 5–10, 2008

## Supervision of PhD students & postdoctoral researchers

I have extensive experience in supervising students at BSc level (25 projects to completion), MSc level (10 projects to completion) as well as PhD level (3 projects to completion, 1 currently supervised, 1 due to start in the academic year 2018/19), and have experience in supervising postdoctoral researchers.

### Postdocs

2016: Dr Zoé Christoff

2014: Dr Joanne Powell

### PhDs

2018-now: Yuzhe Zhang, *Multi-Agent Decision Making*

2018-now: Heng Zheng, *AI & Law*, with Bart Verheij

2018-now: Xingchi Su, *Deontic Logic*, with Rineke Verbrugge and Barteld Kooi

2014-now: Christos Moyses, *Topics in Dynamic Epistemic Logic* (graduation expected in 2018), co-supervised with Prof. Wiebe van der Hoek

2013-2017: Christof Spanring, *Set-Theoretic and Graph-Theoretic Aspects of Abstract Argumentation Theory*, co-supervised with Prof. Paul Dunne

2012-2015: Maduka Attamah, *Epistemic Planning*, co-supervised with Prof. Wiebe van der Hoek and Prof. Hans van Ditmarsch

2012-2014: Zaher Salah, *Graph-Theoretic Structures in Debates*, co-supervised with Prof. Frans Coenen

## Supervision of Bachelor & MSc students

### MSc

2018-19: R. de Weert, *An Agent-Based Model of Liquid Democracy*

2015-16: J. Guo, *Formal Verification of Epidemics*

2014-15: G. Webb, *Formal Verification of Cascading Behaviors*; G. Iwetan, *Formal Verification of Epidemics*; V. Chawla, *Formal Verification of Social Segregation*

2013-14: C. Uzoegwu, *Model-checking Epidemics*

2012-13: D. Spring, *A Self-balancing Ball-bot*; N. Nair, *A Robot that Learns how to Crawl*; Zheng Nie, *Model-checking epidemics*

2011-12: V. Dhar, *Model checking argumentation graphs*; A. Belanyek, *Norms in Multiagent Systems*

### BSc

21 projects supervised to completion at the University of Liverpool, 6 supervised to completion at the University of Groningen

## Service

**Academic and Departmental Service****Refereeing, chairing and membership of scientific committees**

Referee (journals)	<p><u>Artificial Intelligence</u>: Artificial Intelligence Journal, Journal of Artificial Intelligence Research, Journal of Autonomous Agents and Multiagent Systems, Journal of Artificial Intelligence and Law, Journal of Argument and Computation, Transactions on Economics and Computation</p> <p><u>Logic</u>: Journal of Applied Logic, Journal of Applied Non-Classical Logic, Journal of Logic and Computation, Studia Logica, Journal of Philosophical Logic</p> <p><u>Philosophy</u>: Synthese, Erkenntnis, Episteme</p> <p><u>Economics</u>: Social Choice and Welfare, Journal of Economic Theory</p>
Associate Expert	Member of EPSRC Associate Peer Review College (2016, 2017)
Referee/Expert (agencies)	European Research Council (ERC, 2017 and 2016); Dutch Organization of Scientific Research (NWO, 2015); EPSRC (2014); Belgian Organization for Scientific Research (FWO, 2017, 2016 and 2014); European Commission, Future Emerging Technologies Scheme (2016, 2014 and 2012); Vienna Science & Technology Fund (2014); French Organization of Scientific Research (ANR, 2013)
Co-chair of	<p><u>1 Summer School</u>: 18th European Agent Systems Summer School (EASSS'16)</p> <p><u>1 Conference</u>: 12th International Conference on Deontic Logic and Normative Systems (DEON'14)</p> <p><u>3 Workshops</u>: Dagstuhl Workshop on Judgment Aggregation for Artificial Intelligence (JA4AI, 2014); 4th International workshop on Logic, Rationality and Interaction (LORI-4); 5th International Workshop on Normative Multi-agent Systems (NorMAS'10)</p>
PC member of	<p><u>39 Conferences</u>: KR'18, IJCAI'18 (Senior PC member), AAMAS'18 (Senior PC member), AAAI'18, DEON'18, COMMA'18, IJCAI'17 (Senior PC member), AAAI'17, AAMAS'17, ICAIL'17, ACM SAC'17, IJCAI'16, KR'16, AAAI'16, AAMAS'16, ECAI'16, DEON'16, COMMA'16, IJCAI'15, AAAI'15, AAMAS'15, ICAIL'15, KR'14, AAMAS'14, EUMAS'14, AAAI'13, IJCAI'13, AAMAS'13, ICAIL'13, KR'12, AAMAS'12, ECAI'12, IJCAI'11, AAMAS'11, AAMAS'10, ECAI'10, DEON'10, AAMAS'09, MICAI'08.</p> <p><u>34 Workshops</u>: LOFT'18, SR'18, JURIX'18, WTSC'18, LORI'17, IDC'17, CMNA'17, WTSM'17, LOFT'16, JURIX'16, M4M'16, ESSLLI'16 Student Session, ESSLLI'15 Student Session, 11th International Tbilisi Symposium on Language, Logic and Computation, ArgMAS'15, LORI-5, CMNA'15, PRIMA'15, COMMA'14, JURIX'14, TiL'14, ESSLLI'14 Student Session, ESSLLI'13 Student Session, COMMA'12, CLIMA XIII, CLIMA XII, NMR'10, NorMAS'10, CLIMA XI, NorMAS'09, ESAW'09, LMSC'09, NorMAS'08</p>

**PhD examination committees**

1. Chenwei Shi, *Reasons to Believe*, University of Amsterdam, June 2018
2. Zuojun Xiong, *On the Logic of Multicast Messaging and Balance in Social Networks*, University of



Bergen, November 2017

3. Gabrielle Santos, *Selective Sharing: A Dialogical Approach to Ontology Matchings*, University of Liverpool, November 2017
4. David Hamilton, *Majority Problems in Distributed Systems*, University of Liverpool, May 2017
5. Guifei Jiang, *Logics for Strategic Reasoning and Collective Decision-Making*, Western Sydney University and University of Toulouse, June 2016 (external examiner)
6. Ana Ozaki Rivera Castillo, *Exact Learning of Description Logic Ontologies*, University of Liverpool, April 2016
7. Erica Calardo, *Non-Normal Modal Logic, Quantification, and Deontic Dilemmas: a Study in Multi-Relational Semantics*, University of Bologna, September 2013 (external examiner)
8. Richard Stocker, *Towards the Formal Verification of Human-Agent-Robot Teamwork*, University of Liverpool, March 2013
9. Fernando Velázquez-Quesada, *Small Steps in Dynamics*, Institute for Logic, Language and Computation, University of Amsterdam, February 2011 (external examiner)
10. Nick Tinnemeier, *Organizing Agent Organizations*, University of Utrecht, February 2011 (external examiner)

### Conference and seminar organization

1. Organizer (with Barteld Kooi) of the 14th International Conference on Logic and the Foundations of Game and Decision Theory,<sup>3</sup> Groningen, July 2020
2. Organizer (with Hykel Hosni and Sanjay Modgil) of the Lorentz center workshop on *Bounded Reasoning in Individuals and Groups*,<sup>4</sup> Leiden, July 2018
3. Organizer (with Wiebe van der Hoek) of TARK'17<sup>5</sup> and of SR'17<sup>6</sup>, Liverpool, July 2017
4. Organizer (with Umberto Grandi) of the 1st Workshop on Theoretical Aspects of eDemocracy<sup>7</sup>, University of Toulouse, 25-26 April 2017
5. Organizer (with Christian Bach) of the 1st Liverpool Economic Theory and Computation (LETC<sup>8</sup>) Workshop, Liverpool 23rd September 2016
6. Manager of the *Logic and Rational Interaction Portal* ([loriweb.org](http://loriweb.org)), 2011-2013
7. Organizer (with Leendert van der Torre and Jan Broersen) 2nd International Workshop on Formal Models of Norm Change, University of Amsterdam, January 18-19, 2010
8. Organizer (with Martin Caminada) of the GALP symposium (Games, Argumentation, and Logic Programming), University of Luxembourg, April 23–24, 2009
9. Member of the local organizers team of DEON'08, University of Luxembourg, July 15-18, 2008
10. Member of the local organizers team of DEON'06, Utrecht University, July 12-14, 2006
11. Member of the local organizers team of AAMAS'05, Utrecht University, July 25-29, 2005

<sup>3</sup><https://sites.google.com/rug.nl/loft2020/home>

<sup>4</sup><http://www.lorentzcenter.nl/lc/web/2018/991/info.php3?wsid=991&venue=0ort>

<sup>5</sup><http://tark17.csc.liv.ac.uk>

<sup>6</sup><http://sr2017.csc.liv.ac.uk>

<sup>7</sup><https://www.irit.fr/~Umberto.Grandi/e-democracy2017>

<sup>8</sup><https://sites.google.com/site/economictheoryandcomputation/>

## Departmental administrative duties

- 2019 - now: Chair of the Board of Examiners, AI/HMC Programme, University of Groningen
- 2019 - now: Organizer (with Jelmer Borst) of the AI Colloquium, Bernoulli Institute, University of Groningen
- 2019 - now: Organizer (with Rineke Verbrugge and Allard Tamminga) of the Groningen Logic seminar (Grolog)
- 2019 - 2020: Member of the Faculty of Science and Engineering working group on on-boarding, University of Groningen
- 2018 - 2019: Member of the Board of Examiners, Department of Artificial Intelligence, University of Groningen
- 2015 - 2017: Head of the Argumentation Research Group of the Department of Computer Science, University of Liverpool<sup>9</sup>
- 2015 - 2017: Coordinator of the scientific outreach programme of the Department of Computer Science<sup>10</sup>
- 2012 - 2015: Coordinator of undergraduate admissions for the Department of Computer Science
- 2012 - 2013: Interim outreach coordinator for the Department of Computer Science
- 2011 - 2016: Library liaison officer for the Department of Computer Science
- 2009 - 2011: Manager of the LIRa seminar (Logic and Interactive Rationality<sup>11</sup>), ILLC, University of Amsterdam, 2009–2011

## Public engagement

- |               |   |
|---------------|---|
| April 2020    | Public lecture at Democratie van de Toekomst (Democracy of the Future), Flemish Parliament  |
| January 2020  | Public lecture on Democratic Algorithms (in Dutch). Groninger Forum, Mens & Machine lecture series In the context of the AI: More than Human exhibition |
| February 2014 | Panelist at the Westminster Education Forum <i>Preparing for the new Computing Curriculum</i> , London  |

<sup>9</sup><https://www.liverpool.ac.uk/computer-science/research/artificial-intelligence/argumentation/>

<sup>10</sup>Some of my activities in this role have been covered by a university news item. <http://news.liv.ac.uk/2013/06/06/the-liverpool-view-empowering-the-next-generation-of-computing-teachers>

<sup>11</sup><http://www.illc.uva.nl/lgc/seminar>