

CURRICULUM VITAE

CHEN QIAN

The Tsinghua-UvA Joint Research Centre for Logic,
Department of Philosophy, Tsinghua University

Date of Birth: January 17, 1999

The Institute of Logic, Language and Computation,
University of Amsterdam

Email: chenq21@mails.tsinghua.edu.cn
q.chen2@uva.nl

RESEARCH INTERESTS

I am most interested in modal logic, especially interactions of operators of polymodal logic. Recently, I am focusing on the similarity and difference between basic modal logic and tense logic. Recently, I am learning category theory and duality theory. I also hold an active interest in dependence logic, logic of games, dynamic modal logic and other related fields.

EDUCATION

- Ph.D Candidate in Logic Sep. 2021 -
 - Tsinghua University & University of Amsterdam
(Tsinghua-UvA Joint Ph.D Programme)
 - Supervisor: Fenrong Liu and Nick Bezhanishvili
- BA in Philosophy Sep. 2017 - Jun. 2021
 - Department of Philosophy, Sun Yat-sen University
 - Dissertation supervisor: Minghui Ma

PUBLICATIONS

Under review / in progress

1. Qian CHEN (2024). On Pretabularity of Tense Logics over $S4$. *Manuscript*.
2. Chenwei SHI, Qian CHEN and Qingyu HE (2024). On common knowledge in logic of functional dependence and independence in (hybrid) modal logic. *Manuscript*.
3. Qian CHEN and Penghao DU (2024). Logic of Local Link Variations: Characterization, Model Checking and Satisfiability. *Manuscript*.
4. Jeremy SELIGMAN and Qian CHEN (2024). Applied Logic. *Manuscript*.

Published Works

1. Qian CHEN, Chenwei SHI and Yiyan WANG (2024). Reasoning about dependence, preference and coalitional power. *Journal of Philosophical Logic* 53, 99–130. <https://doi.org/10.1007/s10992-023-09727-2>.
2. Penghao DU, and Qian CHEN (2024). Axiomatization of Hybrid Logic of Link Variations. In: Gierasimczuk, N., Velázquez-Quesada, F.R. (eds) *Dynamic Logic. New Trends and Applications*. DaLí 2023. Lecture Notes in Computer Science, vol 14401. Springer, Cham. https://doi.org/10.1007/978-3-031-51777-8_3.

3. Qian CHEN, and Dazhu LI (2024). Logic of the Hide and Seek Game: Characterization, Axiomatization, Decidability. In: Gierasimczuk, N., Velázquez-Quesada, F.R. (eds) *Dynamic Logic. New Trends and Applications*. DaLi 2023. Lecture Notes in Computer Science, vol 14401. Springer, Cham. https://doi.org/10.1007/978-3-031-51777-8_2.
4. Qian CHEN and Minghui MA (2023). Modal logic of generalized separated topological spaces. In Banerjee, M. and Sreejith, A. V., editors. *Logic and its applications*. ICLA 2023. Lecture Notes in Computer Science, vol 13963, pages 92-104. Springer, Cham. DOI: https://doi.org/10.1007/978-3-031-26689-8_7
5. Qian CHEN and Minghui MA (2022). Tabularity and Post-completeness in Tense Logic. *The Review of Symbolic Logic*. DOI: <https://doi.org/10.1017/S1755020322000132>
6. Minghui MA and Qian CHEN (2023). Finite model property in weakly transitive tense logics. *Studia Logica* 111: 217–250. DOI: <https://doi.org/10.1007/s11225-022-10027-0>
7. Minghui MA and Qian CHEN (2021). Lattices of finitely alternative tense logics. *Studia Logica* 109: 1093–1118. DOI: <https://doi.org/10.1007/s11225-021-09942-5>
8. Weakly transitive tense logic. BA Thesis. Sun Yat-sen University, 2021. (written in Chinese)

CONFERENCE PRESENTATIONS

1. Axiomatization of Hybrid Logic of Link Variations (Joint work with Penghao Du). *DaLi: Dynamic Logic – New trends and applications*, 2023. Tbilisi, Georgia.
2. Logic of the Hide and Seek Game: Characterization, Axiomatization, Decidability (Joint work with Dazhu Li). *DaLi: Dynamic Logic – New trends and applications*, 2023. Tbilisi, Georgia.
3. Modal logic of generalized separated topological spaces (Joint work with Minghui Ma). *The 10th Indian Conference on Logic and its Applications*, 2023. Online.
4. Logic of Preference and Functional Dependence (Joint work with Chenwei Shi and Yiyan Wang). *Workshop on Logic in Multi-agent Systems 2022*. Beijing, China.
5. More on Hide and Seek Logic (Joint work with Dazhu Li). *Workshop on Logic and its interfaces 2022*. Beijing, China.

HONOURS AND AWARDS (SELECTION)

1. National Scholarship for Doctoral Students. Awarded by Ministry of Education of the People’s Republic of China, 2023.
2. Excellent Teaching Assistant Award. Awarded by Tsinghua University, 2023.
3. The First Prize Scholarship for Excellent Graduate Students. Awarded by Tsinghua University, 2022.
4. Outstanding BA Thesis. Awarded by Sun Yat-sen University, 2021.
5. Li Xuerou Foundation Scholarship. Awarded by Sun Yat-sen University, 2021.
6. National Scholarship for Undergraduate Students. Awarded by Ministry of Education of the People’s Republic of China, 2018-2020.

PROFESSIONAL SERVICE (SELECTION)

Teaching Assistance

1. Modal Logic and its Applications (Lecturer: Jeremy Seligman). Spring of 2023.
2. Foundations of Logic (Lecturer: Dag Westerståhl). Spring of 2023.
3. Logic, Computation and Games (Lecturer: Johan van Benthem). Fall of 2022.
4. Expressivity and Inference in Hybrid Logic (Lecturer: Patrick Blackburn). One of the courses provided by the Second Tsinghua Logic Summer School. Summer of 2022.
5. Foundations of Logic (Lecturer: Dag Westerståhl). Spring of 2022.
6. Logic, Language and Philosophy (Lecturer: Fenrong Liu and Martin Stokhof). Fall of 2021.

Organizational Works

1. Wang Hao Lectures. Tsinghua University, Beijing, China, 2023.
2. Workshop on Mathematical Logic and Philosophy of Maths. Tsinghua University, Beijing, China, 2023.
3. Workshop on Computational Logic. Tsinghua University, Beijing, China, 2023.
4. Workshop on Logic and its interfaces. Tsinghua University, Beijing, China, 2022.
5. The Second Tsinghua Logic Summer School. Tsinghua University, Beijing, China, 2022.
6. Tutorial: ‘What makes logic (un)decidable?’. Tsinghua University, Beijing, China, 2022.

SHORT PRESENTATIONS (SELECTION)

1. Reflection Theorem. on project: Forcing and Independence Proof, University of Amsterdam, Amsterdam, the Netherlands. 2024.
2. Generalized Separated Topological Spaces and its Modal Logic. Tsing Ch’a Sessions, Tsinghua University, Beijing, China. 2023.
3. Tabularity and Post-Completeness in Tense Logic. Tsing Ch’a Sessions, Tsinghua University, Beijing, China. 2022.
4. Modal Languages and Bounded Fragments of Predicate Logic. Tsing Ch’a Sessions, Tsinghua University, Beijing, China. 2022.
5. Lattices of Finitely Alternative Normal Tense Logics. Tsing Ch’a Sessions, Tsinghua University, Beijing, China. 2021.
6. Stream Automata and Logic of Linear Time. on reading group of fix-point logics and μ -calculus, Tsinghua University, Beijing, China. 2021.