

# CURRICULUM VITAE

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## CHEN QIAN

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Date of Birth: January 17, 1999

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## RESEARCH INTERESTS

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I am most interested in modal logic, especially interactions of operators of polymodal logic. Recently, my research focus on the similarity and difference between basic modal logic and tense logic, especially on the lattices of logics. I also hold an active interest in dependence logic, logic of games, dynamic modal logic and other related fields.

## EDUCATION

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- 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

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### *Under review*

1. Qian CHEN (2025). Degree of Kripke-incompleteness of Tense Logics [Preprint]. [arXiv:2507.04533v1](https://arxiv.org/abs/2507.04533v1).
2. Qian CHEN (2024). Pretabular Tense Logics over  $S4_t$  [Preprint]. [arXiv:2412.19558](https://arxiv.org/abs/2412.19558).
3. Qian CHEN and Penghao DU (2024). Logic of Local Link Variations: Characterization, Model Checking and Satisfiability. *under review*.
4. Qian CHEN (2025). Degree of Kripke-incompleteness in  $NExt(S4_t)$  (Abstract). *Accepted by TbiLLC 2025*.
5. Qian CHEN and Penghao DU (2025). Modal Logics of Global Definable Link Variations (Abstract). *Accepted by BLESS-2025*.
6. Chenwei SHI, Qian CHEN and Qingyu HE (2025). Naming Sets: New Axiomatization of the Modal Logic in the Bimodal Base  $L(R, -R)$  *Accepted by AWPL 2025*.

### ***In progress***

1. Qian CHEN and Tenyo TAKAHASHI (2025). Undecidable logical properties in Tense Logic. *Manuscript*.
2. Rodrigo Nicolau ALMEIDA and Qian CHEN (2025). Interpolation Properties of bi-Gödel Logic. *Manuscript*.
3. Nick BEZHANISHVILI and Qian CHEN (2025). Super-amalgamation of Cylindric Modal Algebras. *Manuscript*.
4. Jeremy SELIGMAN and Qian CHEN (2024). Applied Logic. *Manuscript*.

### ***Journal Articles***

1. Qian CHEN and Minghui MA (2024). The McKinsey Axiom on Weakly Transitive Frames. *Studia Logica*. DOI: <https://doi.org/10.1007/s11225-024-10145-x>
2. Qian CHEN and Minghui MA (2024). Tabularity and Post-completeness in Tense Logic. *The Review of Symbolic Logic* 17(2):475-492. DOI: <https://doi.org/10.1017/S1755020322000132>
3. Qian CHEN, Chenwei SHI and Yiyang 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>.
4. 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>
5. 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>

### ***Refereed Conference Articles and abstracts***

1. Qian CHEN (2025). Degree of Kripke-incompleteness in Tense Logics (Abstract). *Abstract Booklet. The Logic Algebra and Truth Degrees (LATD) 2025*. [Link](#)
2. Qian CHEN (2024). Pretabular Tense Logics over  $S4_t$  (Abstract). *TACL 2024, Book of Abstracts* 88-89. [Link](#)
3. Chenwei SHI, Qian CHEN and Qingyu HE (2024). Common Knowledge as Mutual Range-Dependence (Abstract). *The Third International Workshop on Logic and Philosophy - Agency and Intentionality: Collective and Individual*. [Link \(Research Gate\)](#)
4. 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](https://doi.org/10.1007/978-3-031-51777-8_3).
5. 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*. DaLí 2023. Lecture Notes in Computer Science, vol 14401. Springer, Cham. [https://doi.org/10.1007/978-3-031-51777-8\\_2](https://doi.org/10.1007/978-3-031-51777-8_2).
6. 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](https://doi.org/10.1007/978-3-031-26689-8_7)

## CONFERENCE PRESENTATIONS

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1. Degree of Kripke-incompleteness in Tense Logics. *The Logic Algebra and Truth Degrees*, 2025. Siena, Italy.
2. Pretabular Tense Logics over  $S4_t$ . *Topology, Algebra and Categories in Logic*, 2024. Barcelona, Spain.
3. Axiomatization of Hybrid Logic of Link Variations (Joint work with Penghao Du). *DaLi: Dynamic Logic – New trends and applications*, 2023. Tbilisi, Georgia.
4. 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.
5. Modal logic of generalized separated topological spaces (Joint work with Minghui Ma). *The 10th Indian Conference on Logic and its Applications*, 2023. Online.
6. Logic of Preference and Functional Dependence (Joint work with Chenwei Shi and Yiyan Wang). *Workshop on Logic in Multi-agent Systems 2022*. Beijing, China.
7. More on Hide and Seek Logic (Joint work with Dazhu Li). *Workshop on Logic and its interfaces 2022*. Beijing, China.

## HONOURS AND AWARDS (SELECTION)

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1. National Scholarship for Doctoral Students. Awarded by Ministry of Education of the People's Republic of China, 2024.
2. National Scholarship for Doctoral Students. Awarded by Ministry of Education of the People's Republic of China, 2023.
3. Excellent Teaching Assistant Award. Awarded by Tsinghua University, 2023.
4. The First Prize Scholarship for Excellent Graduate Students. Awarded by Tsinghua University, 2022.
5. Outstanding BA Thesis. Awarded by Sun Yat-sen University, 2021.
6. Li Xuerou Foundation Scholarship. Awarded by Sun Yat-sen University, 2021.
7. National Scholarship for Undergraduate Students. Awarded by Ministry of Education of the People's Republic of China, 2019.
8. National Scholarship for Undergraduate Students. Awarded by Ministry of Education of the People's Republic of China, 2018.

## PROFESSIONAL SERVICE (SELECTION)

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### *Supervised Project*

1. Topology in and via Logic 2025 (jointly with Rodrigo N. Almeida and Nick Bezhanishvili). Winter project on topology theory at ILLC, University of Amsterdam. [Website](#)
2. Degree of Kripke-incompleteness 2024 (jointly with Rodrigo N. Almeida and Nick Bezhanishvili). Individual project on topology theory at ILLC, University of Amsterdam. [Website](#)

### ***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. Reading group: Universal algebra. University of Amsterdam, Amsterdam, the Netherlands. 2025.
2. Wang Hao Lectures. Tsinghua University, Beijing, China, 2023.
3. Workshop on Mathematical Logic and Philosophy of Maths. Tsinghua University, Beijing, China, 2023.
4. Workshop on Computational Logic. Tsinghua University, Beijing, China, 2023.
5. Workshop on Logic and its interfaces. Tsinghua University, Beijing, China, 2022.
6. The Second Tsinghua Logic Summer School. Tsinghua University, Beijing, China, 2022.
7. Tutorial: ‘What makes logic (un)decidable?’. Tsinghua University, Beijing, China, 2022.

### **SHORT PRESENTATIONS (SELECTION)**

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1. Ultraproducts and Jónsson’s lemma. *Reading group: Universal algebra*, University of Amsterdam, Amsterdam, the Netherlands. 2025.
2. Identities and Birkhoff’s theorem. *Reading group: Universal algebra*, University of Amsterdam, Amsterdam, the Netherlands. 2025.
3. Terms and free algebras. *Reading group: Universal algebra*, University of Amsterdam, Amsterdam, the Netherlands. 2025.
4. Complete lattice, closure operator and Galois connection. *Reading group: Universal algebra*, University of Amsterdam, Amsterdam, the Netherlands. 2025.
5. Pretabular Tense Logics. *Algebraic and Topological Logical Advances Seminar*, University of Amsterdam, Amsterdam, the Netherlands. 2024.
6. Reflection Theorem. on project: *Forcing and Independence Proof*, University of Amsterdam, Amsterdam, the Netherlands. 2024.
7. Generalized Separated Topological Spaces and its Modal Logic. *Tsing Ch’a Sessions*, Tsinghua University, Beijing, China. 2023.
8. Tabularity and Post-Completeness in Tense Logic. *Tsing Ch’a Sessions*, Tsinghua University, Beijing, China. 2022.

9. Modal Languages and Bounded Fragments of Predicate Logic. *Tsing Ch'a Sessions*, Tsinghua University, Beijing, China. 2022.
10. Lattices of Finitely Alternative Normal Tense Logics. *Tsing Ch'a Sessions*, Tsinghua University, Beijing, China. 2021.
11. Stream Automata and Logic of Linear Time. *Reading group: Fix-point logics and  $\mu$ -calculus*, Tsinghua University, Beijing, China. 2021.