

CV

Thea Li
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EDUCATION

- 2024 - now** **PhD student in QuaCS, Laboratoire Méthodes Formelles**
Advised: by Vladimir Zamdzhiev and Benoît Valiron
Topic: A Logical and Categorical Analysis of the Heisenberg-Schrödinger duality
- 2023 - 2024** **LMFI Programme at Paris Cité** (Second year of Master's)
- 2022 - 2023** **Master's Programme in Mathematics at Stockholm University and KTH Royal institute of Technology** (First year of Master's)
- 2020 - 2022** **Bachelor's Programme in Mathematics at Stockholm University**
Bachelor's program in general mathematic amounting to 180 ECTS, graduated with 195 ECTS after two years of studies (the first term was completed during my last year of high school).

RESEARCH EXPERIENCE

- Apr - Jul 2024** **Internship at QuaCS, LMF under the supervision of Vladimir Zamdzhiev and Benoît Valiron**
Topic: The category of finite dimensional operator spaces.
- Feb - Jun 2024** **Participating in the Adjoint School**
Mentored reading group and research program for young researchers in applied category theory.
- Jun - Jul 2023** **Internship at LIX under the supervision of Noam Zeilberger**
Topic: Determinization procedures for categorical automata.
- Feb - May 2022** **Bachelor's Thesis under the supervision of Peter Lefanu Lumsdaine**
Topic: The internal language of sheaves and applications to algebraic geomerty.

PUBLICATIONS

- 2024** **Fibrational perspectives on determinization of finite-state automata**
Accepted to ACT 2024

SCHOLARSHIPS

- Sept 2023 - Jul 2024** **PGSM scholarship offered by the Fondation Sciences Mathématiques de Paris**

TALKS

Jun 2024	Fibrational perspectives on determinization of finite-state automata, ACT 2024
Jun 2024	A diagrammatic calculus for skew monoidal categories (presentation of Adjoint School project), ACT 2024
Nov 2022	The internal language of sheaves and applications to algebraic geometry, Dutch Categories and Types Seminar (DutchCATS)

TEACHING EXPERIENCE

Nov 2022 - Jan 2023	Teaching Assistant for the course Algebra and Combinatorics at Stockholm University
Jun-Aug 22/23	Teaching assistant for the preparatory mathematics course at Stockholm University
Sep 2021 - Jun 2023	Teaching assistant for the course Mathematic's I

LANGUAGES

Swedish	-	native speaker
Chinese	-	native speaker
English	-	fluent
French	-	basic knowledge

PROGRAMMING LANGUAGES

Agda	-	basic knowledge
Coq	-	basic knowledge
Python	-	basic knowledge
R	-	basic knowledge
C++	-	basic knowledge