

THEOFILOS TSANTILAS

PH.D. STUDENT IN MATHEMATICS

CONTACT INFO

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ABOUT ME

I am a Ph.D. student at School of Applied Mathematical and Physical Sciences, National Technical University of Athens, Greece, working on Category Theory under the supervision of Christina Vasilakopoulou and Panagis Karazeris.

My study interests, apart from Category Theory, involve Algebra, especially Galois Theory, a little bit of Topology and Categorical Foundations of Mathematics.

My spare time activities include experimenting with markup languages such as HTML and LaTeX (currently collaborating with a Greek publication house for the production of university textbooks using XeLaTeX) and playing (sometimes successfully!) a song or two on the piano.

EDUCATION

PH.D. IN MATHEMATICS

ongoing

National Technical University of Athens | Athens, Greece

- Area: Category Theory
- Supervisors: C. Vasilakopoulou, P. Karazeris
- Supported by a scholarship from the Special Account for Research Funding (E.L.K.E.) of National Technical University of Athens

M.SC. IN PURE MATHEMATICS

2022

National Kapodistrian University of Athens | Athens, Greece

- Focus: Algebra, Foundations of Mathematics
- Thesis topic: "Grothendieck's Galois Theory"

- Focus: Pure Mathematics, Algebra

DISSERTATIONS

I have written a number of dissertations during both my undergraduate and graduate years on topics not usually covered in corresponding curricula. Such topics include Non-Archimedean Geometries, p -adic Field Theory, Elementary Theory of the Category of Sets, Khovanov Homology, Category Theory in Homotopy Type Theory and more.

TEACHING

UNIVERSITY COURSES

2024 - now

Teaching assistant | *National Technical University of Athens (NTUA)*

- Teaching assistant for undergraduate courses in various departments of NTUA.
- Courses' curricula include: Calculus, Analytic Geometry, Linear Algebra and Number Theory.

PRIVATE LESSONS

2015 - now

- Have been teaching Mathematics for all classes of Greek High School.
- Occasionally teaching Mathematics to adults for the needs of University classes.

VOLUNTEER WORK

2018-2020

Math teacher | *Community Private School of Municipality of Athens*

- Was teaching Mathematics for Junior High School classes (7th and 9th grade) at the Community Private School of Municipality of Athens.

LANGUAGES

● ● ● ● ● ● Greek (Native), English (C2)

● ○ ○ ○ ○ ○ German

SOFTWARE

● ● ● ● ○ ○ \LaTeX and XeLaTeX (professional everyday use; drawing; need to look documentation every now and then)

● ● ● ○ ○ ○ MatLab (from a corresponding undergraduate class; haven't used it in some years)

● ○ ○ ○ ○ ○ Python (self-taught; basic understanding), Mathematica (self-taught; basic calculations in Analysis and Algebra; plotting), HTML (self-taught; made my own website)