

THEOFILOS TSANTILAS

Ph.D. student in Mathematics

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ABOUT ME

I am a Ph.D. student at the 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 spare time activities include playing around with markup languages such as HTML, CSS and LaTeX (currently collaborating with a Greek publication house for the production of university textbooks using XeLaTeX).

EDUCATION

Ph.D. in Mathematics (ongoing) | *National Technical University of Athens, Greece*

- **Research area:** *Category Theory*
- **Supervisors:** Christina Vasilakopoulou, Panagis Karazeris
- Supported by a scholarship from the Special Account for Research Funding (E.A.K.E.) of National Technical University of Athens

M.Sc. in Pure Mathematics | *National Kapodistrian University of Athens, Greece*

- **Focus:** Algebra, Foundations of Mathematics
- **Master Thesis:** “*Grothendieck’s Galois Theory*”

B.Sc. in Mathematics | *National Kapodistrian University of Athens, Greece*

- **Focus:** Pure Mathematics, Algebra

RESEARCH

Research areas Category Theory, Algebra

Research interests (Co)Algebras of endofunctors, (co)monads internal to double categories and their (co)modules.

TEACHING

Teaching Assistant | *National Technical University of Athens*

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|---|---------------------------------|
| • Analytic Geometry and Linear Algebra
School of Applied Mathematical and Physical Sciences | <i>winter 2025, winter 2024</i> |
| • Algebra and Applications
School of Applied Mathematical and Physical Sciences | <i>winter 2025, winter 2024</i> |

- **Number Theory** *spring 2025*
School of Applied Mathematical and Physical Sciences
 - **Multivariable Calculus** *spring 2025*
School of Civil Engineering
 - **Mathematical Analysis and Linear Algebra** *winter 2024*
School of Civil Engineering
 - **Mathematical Analysis (Multivariable Calculus)** *spring 2024*
School of Electrical and Computer Engineering
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LANGUAGES

Natural Greek (Native), English (C2)

Programming L^AT_EX and X^AL^AT_EX (professional use for creating university textbooks (math, physics and chemistry) in collaboration with a greek publication house; drawing; need to look at documentation every now and then). HTML/CSS (self-taught for the website needs of various projects). Limited use and understanding of other languages such as MatLab, Python and Mathematica.