

# Stefania Skorda

Electrical & Computer Engineer, MEng NTUA

PhD Candidate, NTUA/NCSR “Demokritos”

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Birth Date: 11/11/2000, Citizenship: GR

## EDUCATION

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<b>National Technical University of Athens, NCSR “Demokritos”</b>	Apr. 2025 – Present
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School of Applied Mathematical and Physical Sciences

*PhD Candidate*

Thesis: “Nanoscale Energy Transport Phenomena in low dimensional materials”,

Supervisors: Dr. Alexandros El Sachat, Prof. Athanasios Kontos

<b>National Technical University of Athens</b>	Oct. 2018 – Mar. 2024
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Integrated Master of Electrical and Computer Engineering

Direction of Electronics & Systems (Flows: Y: Computer Systems, H: Electronics-Circuits-Materials, I: Biomedical Engineering)

## RESEARCH & WORK EXPERIENCE

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<b>National Center for Scientific Research “Demokritos”, INN, Athens, Greece</b>	Sep. 2024 – Present
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*Research Assistant*

Project: ERC, “TheMa - on-chip energy harvesting and management enabled by thermal engineering of two-dimensional materials”, Supervisor: Dr. Alexandros El Sachat

<b>Institut Polytechnique de Grenoble (INP), CROMA, Grenoble, France</b>	Apr. 2024 – Jul. 2024
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*Erasmus+ Research Intern*

Project: “Characterization of Static and Dynamic Variability in Memristive Devices and Evaluation of their Usability as Security Primitives for PUFs”, Supervisors: Dr. Christoforos Theodorou, Dr. Ioana Vatajelu

<b>National Center for Scientific Research “Demokritos”, INN, Athens, Greece</b>	Apr. 2023 – Mar. 2024
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*Diploma Thesis*

Title: “[Development of PLA-based triboelectric nanogenerators for harvesting the mechanical energy of the environment](#)”, Supervisor: Dr. Christos Tsamis

<b>Physikalisch-Technische Bundesanstalt (PTB), Braunschweig, Germany</b>	Aug. 2023
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*Research Intern / Metrosommer 2023*

Project: “Infrasound Calibration Tube, [Project #07](#)”, Supervisor: Dr. Christoph Kling

**JRC Mobility Germany GmbH (formerly RBI GmbH), Athens/Stuttgart, Greece/Germany**

*Junior Automotive Software Engineer*

Jun. 2022 – Apr. 2023

**Objective:** Data Analysis for automation testing & Software Testing for Mercedes-Benz Group's Software.

## RESEARCH PUBLICATIONS

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1. K. Xu, **S. Skorda**, P.Xiao, E.Coy, R. Ruralli, J.S. Reparaz, and A. El Sachat, “Temperature and thickness-dependent thermal conductivity anisotropy in single-crystal WS<sub>2</sub>”, (submitted, May 2025)
  2. **Skorda, S.**; Bardakas, A.; Vekinis, G.; Tsamis, C. Influence of SiC and ZnO Doping on the Electrical Performance of Polylactic Acid-Based Triboelectric Nanogenerators. Sensors 2024, 24, 2497. <https://doi.org/10.3390/s24082497>

3. **Skorda, S.;** Bardakas, A.; Segkos, A.; Chouchoumi, N.; Hourdakakis, E.; Vekinis, G.; Tsamis, C. Influence of SiC doping on the mechanical, electrical, and optical properties of 3D-printed PLA. J. Compos. Sci. 2024, 8, 79. <https://doi.org/10.3390/jcs8030079>

## SCHOLARSHIPS

<b>Doctoral Scholarship</b>	May 2025
Research Committee (ELKE) NTUA, School of Applied Mathematical and Physical Sciences	

## SKILLS

<b>Design/Simulation Programs</b>	Eagle, Fusion 360, LTSpice, Comsol
<b>Instruments</b>	HP 4140B pA METER, HP 4284A LCR METER, Onosokki FFT Analyzer CF-9400, Agilent B1500, Instron 5982
<b>Microscopy</b>	NX-Hivac, Park Systems (Scanning Probe Microscopy) Familiar with SEM/EDX
<b>Programming Languages</b>	Python (Keras, Tensorflow, Pandas), Matlab, SQL, C#, C/C++, VHDL, Verilog

## AWARDS & HONORS

<b>1st Prize in the 8th National Master Thesis Award Competition issued by the Hellenic Metallurgical Society (HMS)</b>	Apr. 2025
To represent Greece in the European Competition to be held at the FEMS EUROMAT 2025 Conference in Granada, Spain.	
<b>Honorary Award and Money Prize by Hellenic Petroleum</b>	Mar. 2019
For admission to the school of ECE at NTUA and one of the highest grades in West Attica, at the Panhellenic University Entrance Exams of 2018.	

## MEMBER

Technical Chamber of Greece (TEE)	Feb. 2025
Hellenic Metallurgical Society (HMS), Greece	Apr. 2025
Hellenic Society for the Science and Technology of Condensed Matter (HSSTCM)	Jan. 2025

## SEMINARS/CERTIFICATES

<a href="#">Metrosommer</a> , Research Internship – Summer School, Braunschweig, Germany	Aug. 2023
Introduction to Artificial Intelligence, NTUA, Athens, Greece	Sep. 2023
Digital Skill-Up, YouthProAktiv, Erasmus+, Madrid, Spain	Nov. 2021
International Diploma in IT Skills, Cambridge	Oct. 2014

## VOLUNTEERING

<b>Unique Minds, Athens, Greece</b>	Sep.2019 – May 2024
<b>Prometheus ECO Racing Team, NTUA Campus, Athens, Greece</b>	Aug. 2020 – Jul. 2022
<i>Public Relations, Fundraising Responsible &amp; Mechanical Manufacturing</i>	
• <b>Project:</b> <a href="#">Urban Concept – “Pyrforos III” , Team of 2020-2022</a>	
<b>Computer Lab Assistant</b> for the intro of Programming course at ECE NTUA	Oct. 2019 – Jan.2020
<b>Athens Science Festival</b>	Apr. 2019

## LANGUAGES

**Greek** (Native), **English** (Fluent, C2 Proficiency), **French** (Intermediate, B1 Delf)