

# Panagiotis Papantonakis

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Github: [github.com/panagiotisp](https://github.com/panagiotisp)

Personal Site

## EDUCATION

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- **GraphDeco, INRIA** Sophia-Antipolis, France  
PhD in Computer Science  
September 2023 - Present
  - Advisor: George Drettakis
  - Thesis topic: “Investigating Hybrid Volumetric/Geometry Representations for Rendering and Interactive Editing of 3D Scenes”
- **National Technical University of Athens** Athens, Greece  
BSc/MEng in Electrical and Computer Engineering (5-year joint degree; 300 ECTS) October 2015 - November 2021
  - Advisor: Petros Maragos
  - Master’s Thesis: “Singing Voice Separation using Waveform-Level Deep Neural Networks”
  - GPA: 9.16/10 ( $\approx$  top 5%)
- **Front-End Web Developer Nanodegree Program, Udacity** Online  
Online Course offered by Udacity November 2017 - August 2018
  - Scholarship granted after excelling in Udacity’s FEND Challenge 2018
  - Acquired intermediate knowledge on Front-End development with HTML, CSS, Javascript using ReactJS

## SKILLS SUMMARY

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- **Programming Languages:** Python, C++, JavaScript, C, SQL
- **Frameworks and Tools:** Pytorch, Blender, LaTeX, Git, NodeJS, ReactJS
- **Databases:** MongoDB
- **Languages:** Greek (native), English (proficient), French (intermediate)

## EXPERIENCE

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- **GraphDeco, INRIA** Sophia-Antipolis, France  
PhD Student February 2023 - July 2023
  - Working on improving the memory footprint of a point-based, radiance field technique.
- **GraphDeco, INRIA** Sophia-Antipolis, France  
Pre-Doc Internship February 2023 - July 2023
  - Working on improving the memory footprint of a point-based, radiance field technique.
- **CVRL, FORTH** Heraklion, Greece  
R&D Engineer March 2022 - December 2022
  - Implemented a physics-based FLIP simulator in C++ (using OpenVDB 9) and UE5.
  - Participate in various development activities within the DECISMAR project.
- **Hypernetica** Remote  
Junior Software Developer April 2020 - August 2021
  - Developed the full stack of a web application for a customer project.
  - Primarily using JavaScript technologies including React, NodeJS and MongoDB.
- **Google Summer of Code - GFOSS** Remote  
Student Developer (Full-time) May 2019 - Sep 2019
  - Designed, implemented and deployed XtraLingua, a user-friendly GUI tool that facilitates the extraction of various linguistic indices from texts.

## PUBLICATIONS

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- Papantonakis, Panagiotis, Georgios Kopanas, Frédo, Durand, George, Drettakis. “Content-Aware Texturing for Gaussian Splatting.” Eurographics Symposium on Rendering. The Eurographics Association, 2025.
- Panagiotis Papantonakis, Georgios Kopanas, Bernhard Kerbl, Alexandre Lanvin, and George Drettakis. 2024. Reducing the Memory Footprint of 3D Gaussian Splatting. Proc. ACM Comput. Graph. Interact. Tech. 7, 1, Article 16 (May 2024), 17 pages. <https://doi.org/10.1145/3651282>
- Panagiotis Papantonakis, Christos Garoufis, and Petros Maragos, “Multi-band Masking for Waveform-based Singing Voice Separation”, EUSIPCO 2022 (poster)
- Panagiotis Papantonakis, Fotios Fitsilis, Sotiris Leventis, and George Mikros, “Xtralingua: An open-source tool for extracting quantitative text profiles” in DH, 2020 (poster)

## HONORS AND AWARDS

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- **Christos Papakyriakopoulos & Nikos Kritikos Awards by NTUA** - For excelling in Mathematics courses in the freshman year (GPA 10/10).
- **“The Great Moment of Education” Scholarship by Eurobank EFG** - For Outstanding Performance in the Panhellenic Admission Test.
- **Participator of Edutrip 2017 in University of Berkeley** - As part of an one week exchange program, I was selected, along with 3 others, to visit School of EECS in University of Berkeley. We attended multiple courses and visited many companies in Silicon Valley.

## VOLUNTEER EXPERIENCE

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- **IEEE Student Branch, NTUA**

Athens, Greece  
*November 2015 - January 2017*

  - Member - Volunteer
  - Teaching Assistant in Arduino workshops for NTUA's students
  - Member of the Logistic Team of CanSat in Greece 2017 competition