

Panagiotis Papantonakis

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EDUCATION

GraphDeco, INRIA

PhD in Computer Science

Sophia-Antipolis, France
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

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%)

EXPERIENCE

GraphDeco, INRIA

Pre-Doc Internship

Sophia-Antipolis, France
February 2023 - July 2023

- Worked on improving the memory footprint of 3D Gaussian Splatting.

CVRL, FORTH

R&D Engineer

Heraklion, Greece
March 2022 - December 2022

- Implemented a physics-based FLIP simulator in C++ (using OpenVDB 9) and UE5.
- Participated in various development activities within the DECISMAR project.

Hypernetica

Junior Software Developer

Remote
April 2020 - August 2021

- Developed a full stack web application leveraging a JavaScript-based stack (React, NodeJS, MongoDB).

Google Summer of Code - GFOSS

Student Developer (Full-time)

Remote
May 2019 - Sep 2019

- Designed, implemented and deployed XtraLingua, a user-friendly GUI tool for extracting linguistic indices from texts.

SKILLS SUMMARY

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

PUBLICATIONS

- 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)