# Panagiotis Papantonakis

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## EDUCATION

**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 Electical 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**   Sophia-Antipolis, France
Pre-Doc Internship   *February 2023 - July 2023*

- Worked 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.
- Participated 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.

## 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)

## VOLUNTEER EXPERIENCE

**IEEE Student Branch, NTUA**   Athens, Greece
Member - Volunteer   *November 2015 - January 2017*

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