Andrei Stanciulescu

Research Intern / MSc. Student

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https://github.com/StanciulescuAndrei

EXPERIENCE

National Institute of Informatics, Tokyo, Japan - *Research Intern*

FEBRUARY 2024 - JULY 2024

- Worked under the supervision of Prof. Akihiro Sugimoto on my Master's thesis project
- Extended the rendering pipeline for 3D Gaussian Splatting to allow more efficient rendering
- Implemented traditional computer graphics techniques for splat rendering

ViRVIG Research Group, Barcelona, Spain - *Research Intern*

DECEMBER 2022 - JANUARY 2024

- Research project in collaboration with HP
- Geometry processing for high-precision 3D printers
- Implemented various functionalities, mostly focusing on the computation of mesh properties

Accent Pro 2000, Magurele, Romania - *C++ Software Developer - X-RAY Imaging*

AUGUST 2018 - AUGUST 2022

- Worked on solving inverse problems in 3D X-ray tomography using CUDA and VTK
- Developed numerical simulations in C++ to validate detector geometry
- Developed a complete material identification pipeline, from sensor data acquisition to determining material properties

EDUCATION

Facultat d'Informàtica de Barcelona, Spain - *Master in Innovation and Research in Informatics*

SEPTEMBER 2022 - OCTOBER 2024

Faculty of Automatic Control and Computer Science, Romania - ***BEng.*** *Systems Engineering*

SEPTEMBER 2018 - JUNE 2022

SKILLS

- C/C++
- Python & PyTorch
- Rendering & GLSL
- Computational Geometry
- CUDA
- Numerical Simulations

PUBLICATIONS

- *Iovea, M.;* ***Stanciulescu, A.****; Hermann, E.; Neagu, M.; Duliu, O.G.* **Multi-Energy and Fast-Convergence Iterative Reconstruction Algorithm for Organic Material Identification Using X-ray Computed Tomography.** *Materials* **2023**, *16*, 1654. https://doi.org/10.3390/ma16041654
- *Popescu, D.;* ***Stanciulescu, A.****; Pomohaci, M.D.; Ichim, L.* **Decision Support System for Liver Lesion Segmentation Based on Advanced Convolutional Neural Network Architectures.** *Bioengineering* **2022**, *9*, 467. https://doi.org/10.3390/bioengineering9090467