Ntumba Elie Nsampi

Stuhlsatzenhausweg 85, Saarbrücken
66123
☏ *(+49) 1786143531*
✉ *ntumbaeliensampi@gmail.com*
🖅 *https://elientumba2019.github.io/*

Summary

I am a PhD student in computer graphics with broad research interests in implicit representations, machine learning for visual computing, and generative models for representing and reasoning about complex visual data. My current research focuses on implicit neural representations and physics-informed learning for inverse problems, with an emphasis on integrating physical knowledge into data-driven models.

Education

2022 - now	**Max Planck Institute for Informatics and Saarland University**, *Saarbrucken*, Germany.
	Doctor of Philosophy in Computer Science (expected graduation: 2026)
2019 - 2022	**Northwestern Polytechnical University**, *Xian*, Shaanxi, China.
	Masters (Ms. Eng.) in Computer Science
2015 - 2019	**Zhejiang Normal University**, *Jinhua*, Zhejiang, China.
	Bachelors (B. Eng.) in Software Engineering

Experience

2020 - 2022	**Northwestern Polytechnical University**, *Xian*, Shaanxi, China.
	Student Research Assistant With Prof. Qing Wang, CVPG Lab
2018 - 2019	**Samoa Guangji International Co. Ltd**, *Jinhua*, Zhejiang, China.
	Full-Stack Software Enginner Intern

Publications

[1] ***. In Under Submisstion 2026

[2] Fizza Rubab, Ntumba Elie, Nsampi, Martin Balint, Felix Mujkanovic, Hans-Peter Seidel, Tobias Ritschel, Thomas Leimkühler. Learning Neural Antiderivatives. In Vision, Modeling and Visualization (VMV) 2025

[3] Felix Mujkanovic, Ntumba Elie, Nsampi, Christian Theobalt, Hans-Peter Seidel, Thomas Leimkühler. Neural Gaussian Scale-Space Fields. In Special Interest Group on Computer Graphics and Interactive Techniques. (SIGGRAPH) 2024

[4] Ntumba Elie, Nsampi, Adarsh Djeacoumar, Hans-Peter Seidel, Tobias Ritschel, Thomas Leimkühler. Neural Field Convolutions by Repeated Differentiation . In Special Interest Group on Computer Graphics and Interactive Techniques. (SIGGRAPH ASIA) 2023

[5] Zhongyun Hu*, Ntumba Elie Nsampi* ,Xue Wang, Qing Wang. SIDNet: Learning Shading-aware Illumination Descriptor for Image Harmonization . In IEEE Transactions on Emerging Topics in Computational Intelligence. (TETCI) 2023

[6] Zhongyun Hu, Ntumba Elie, Nsampi, Xue Wang, Qing Wang. Physically Inspired Neural Rendering for any-to-any Relighting. In EEE Transactions on Image Processing . (TIP) 2022

[7] Ntumba Elie, Nsampi, Zhongyun Hu, Qing Wang. Learning Exposure Correction Via Consistency Modeling. In British Machine Vision Conference. (BMVC) 2021

[8] Zhongyun Hu, Ntumba Elie Nsampi, Qing Wang. Enhancing Deep Shadow Features for Any-to-Any Relighting. In Signal Processing, 38(9): 1786-1796, 2022 (In Chinese)

[9] Ntumba Elie, Nsampi, Zhongyun Hu, Qing Wang. Depth Guided Image Relighting Challenge. In Conference on Computer Vision and Pattern Recognition Workshops (CVPRW) 2021

Academic Services

Reviewer For Siggraph

Eurographics

Computer Graphics Forum

Transactions on Visualization and Computer Graphics (TVCG)

Skills

Programming **Python, C++, GLSL, Latex**

Technologies **Pytorch, Jax**

Tools **Blender**

Languages

English (Fluent), French (Native), Mandarin (Intermediate), German (Basic)