

Apostolia Tsirikoglou

PhD candidate | Computer graphics and image processing

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[Linköping University, Sweden](#)

[i](#) Born in 1985 in Greece and currently living in Stockholm, Sweden



Apostolia is a PhD candidate with a focus on deep learning for computer vision tasks, visual scene understanding and photo-realistic image synthesis. Among others, she is interested in BRDFs, shaders development and geometry reconstruction.

Experience

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|---------------------------|--|
| Today
02 / 16 | PhD candidate, Linköping University, Sweden
:: Funded by the Wallenberg AI, Autonomous Systems and Software Program (WASP)
:: Work on <ul style="list-style-type: none">> Deep learning for computer vision and graphics> Photo-realistic image synthesis physically-based rendering> BRDF acquisition material representation and editing translucent materials> Laser-scanning and geometry reconstruction from 3D point-clouds :: Teaching assistant in <ul style="list-style-type: none">> Image Processing and Analysis (TNM087 - 2018)> Introduction to programming (TND012 - 2016, 2017, 2018)> Programming in C++ (TNG033 - 2016, 2017) :: Member of the MIT web editors group
Caffe - Tensorflow - PyTorch - Lassagne C++ - Python - Matlab MeshLab - Sequoia - Maya |
| 01 / 16
01 / 14 | Research engineer, Linköping University, Sweden <ul style="list-style-type: none">> Development of algorithms for geometry handling, image synthesis and rendering> Maya and V-Ray shaders> BRDF acquisition> Point-cloud processing and 3D modeling of laser-scanned sites to derive 3D meshes C++ - Python - OSL - MEL - VRay SDK MeshLab - Maya |
| 12 / 13
04 / 13 | Graphics software developer, Swiss International, Sweden <ul style="list-style-type: none">> Design and development of a professional and artist friendly multi-layer subsurface scattering shader that is currently used in production. C++ - VRay SDK |
| 06 / 11
01 / 11 | Electrical and computer engineer, Karkanias Environmental Technology SA, Greece <ul style="list-style-type: none">> Development of a uniform platform for calculation of the transported electric field and power distribution for high voltage industry> Specification of the technical electrical and electro-mechanical equipment Visual Basic |

Education

- 02 / 16 – Today **Doctoral studies, Linköping University**
:: Selected courses and activities
> Deep Learning for Computer Graphics (MIT internal course)
> Pattern Recognition and Machine Learning (MIT internal course)
> Autonomous Systems (WASP course)
> Software Engineering and Cloud Computing (WASP course)
> Summer school on Autonomous Systems 2016 (WASP)
> Summer school on Machine Learning 2017 (WASP)
- 08 / 11 – 03 / 13 **MSc [2 yr] in Media Technology and Engineering**, Advanced Computer Graphics program, [Linköping University](#)
- 09 / 03 – 11 / 10 **MEng [5 yr] in Electrical and Computer Engineering**, School of Electrical and Computer Engineering, [Aristotle University of Thessaloniki](#)

Publications

- 2017 A. Tsirikoglou, J. Kronander, M. Wrenninge, and J. Unger. [Procedural modeling and physically based rendering for synthetic data generation in automotive applications](#). *In arXiv:1710.06270*
- 2016 A. Tsirikoglou, J. Kronander, P. Larsson, T. Tongbuasirilai, A. Gardner, and J. Unger. [Differential appearance editing for measured BRDFs](#). *In ACM SIGGRAPH Talks*
- 2014 A. Tsirikoglou, S. Ekeberg, J. Vikström, J. Kronander, and J. Unger. [S\(wi\)ss: A flexible and robust sub-surface scattering shader](#). *In SIGRAD*

Competences

Programming: C++, Python, Matlab, OpenGL - GLSL, OSL, OpenCV, OpenMesh, MEL, V-Ray SDK, Bash, \LaTeX
DL framework: Caffe, Tensorflow, PyTorch, Lassagne
Software: Maya, Blender, MeshLab, Sequoia, Nuke, AutoCad
OS: Linux, Microsoft Windows, Mac

Languages

English ● ● ● ● ●
Swedish ● ● ○ ○ ○

Interests

Music (playing the piano), books, anything new, **people**