

# Curriculum Vitae

Evangelos Skoulas

## Personal Information

Gender : Male  
Nationality : Greek  
Date of birth : 14 June 1988  
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## Education

**2003-2006:** 7<sup>th</sup> High School of Heraklion, Crete, Greece

**2006-2012:** B.Sc. in Material Science & Technology, Department of Material Science & Technology, Heraklion, Crete, Greece

**2014-2016:** M.Sc. in Optics & Vision , Interdepartmental Master program of faculty of Science, University of Crete, IESL-FORTH, Greece.

### *MSc Thesis:*

**“Femtosecond laser structuring of metallic and dielectric surfaces with linear, radial and tangential polarization states”**

Supervisors: Dr. E. Stratakis & Prof. D. Papazoglou

**11/2016 – up to date:**

### *PhD candidate:*

**“Ultrashort pulse spectral polarization shaping for material processing and imaging applications”**

Supervisors: Prof. D. Papazoglou, Dr. E. Stratakis & Prof G. Kioseoglou

## Work experience

**01/02/11-01/10/11:** Internship at Institute of Electronic Structure & Laser, FO.R.T.H Greece, in the subject “ Study of optical absorption & surface wetting properties on polyethylene films treated by ultrashort laser pulses ” (Supervisor: Dr. Emmanuel Stratakis)

**2014-up to date:**

Member of the Ultrafast Laser Micro- and Nano- processing group at Institute Electronic Structure & Laser, FO.R.T.H Greece (Group Leader: Dr. Emmanuel Stratakis)

## Languages

- Greek (native)
- English (Cambridge First Certificate in English)

## Interests

- Materials Science
- Optical Vortices
- Beam Shaping
- Light – matter interactions
- Laser processing
- Ultrafast laser pulses
- Laser induced periodic surface structures
- Linear Optics
- Biomimetic surfaces

## Publications

- S. V. Kirner *et al.*, “Mimicking bug-like surface structures and their fluid transport produced by ultrashort laser pulse irradiation of steel,” *Appl. Phys. A Mater. Sci. Process.*, vol. 123, no. 12, 2017.
- U. Hermens *et al.*, “Mimicking lizard-like surface structures upon ultrashort laser pulse irradiation of inorganic materials,” *Appl. Surf. Sci.*, vol. 418, pp. 499–507, 2017.
- E. Skoulas, A. Manousaki, C. Fotakis, and E. Stratakis, “Biomimetic surface structuring using cylindrical vector femtosecond laser beams,” *Sci. Rep.*, vol. 7, 2017.
- G. D. Tsibidis, E. Skoulas, and E. Stratakis, “Ripple formation on nickel irradiated with radially polarized femtosecond beams,” *Opt. Lett.*, vol. 40, no. 22, p. 5172, 2015.
- G. D. Tsibidis *et al.*, “Modelling periodic structure formation on 100Cr6 steel after irradiation with femtosecond-pulsed laser beams,” *Appl. Phys. A Mater. Sci. Process.*, vol. 124, no. 1, 2018.
- A. Papadopoulos, E. Skoulas, G. D. Tsibidis, and E. Stratakis, “Formation of periodic surface structures on dielectrics after irradiation with laser beams of spatially variant polarisation: a comparative study,” *Appl. Phys. A*, vol. 124, no. 2, p. 146, 2018.
- B. Gaković, G. D. Tsibidis, E. Skoulas, S. M. Petrović, B. Vasić, and E. Stratakis, “Partial ablation of Ti/Al nano-layer thin film by single femtosecond laser pulse,” *J. Appl. Phys.*, vol. 122, no. 22, 2017.
- G. D. Tsibidis, E. Skoulas, A. Papadopoulos, and E. Stratakis, “Convection roll-driven generation of supra-wavelength periodic surface structures on dielectrics upon irradiation with femtosecond pulsed lasers,” *Phys. Rev. B*, vol. 94, no. 8, 2016.
- E. V Barmina, E. Skoulas, E. Stratakis, and G. A. Shafeev, “Laser Nano-Structuring of Pre-Structured Substrates,” vol. 13, no. 1, pp. 6–9, 2018.
- I. Konidakis, E. Skoulas, A. Papadopoulos, E. Serpetzoglou, E. Margariti, and E. Stratakis, “Erasable and rewritable laser-induced gratings on silver phosphate glass,” *Appl. Phys. A Mater. Sci. Process.*, vol. 0, no. 0, p. 0, 2018.
- C. Florian, E. Skoulas *et al.*, “Controlling the Wettability of Steel Surfaces Processed with Femtosecond Laser Pulses,” *ACS Appl. Mater. Interfaces*, 2018.

- C. Florian Baron *et al.*, “Biomimetic surface structures in steel fabricated with femtosecond laser pulses: influence of laser rescanning on morphology and wettability,” *Beilstein J. Nanotechnol.*, vol. 9, pp. 2802–2812, 2018.

## Conferences

- V. Skoulas, A. Papadopoulos, G. D. Tsibidis, E. Stratakis. Ultrafast laser processing of transparent materials for the fabrication of biomimetic surfaces. **Oral Presentation** on 6th International Symposium on Transparent Conductive Materials Chania 2016.
- A. Papadopoulos, A. Mimidis, E. Skoulas, E. Stratakis. Ultrafast Laser Fabrication of Biomimetic Micro and Nano structured Surfaces. **Poster Presentation** on 2nd Israel - Greece joint meeting on nanotechnology & bionanoscience. Heraklion, Greece.
- E. Skoulas, E. Stratakis. Ultrafast laser fabrication of biomimetic micro and nano structured surfaces. **Oral Presentation** at DPG spring meeting 2017, Mainz, Germany
- E. Skoulas, E. Stratakis. Biomimetic surface structuring using cylindrical vector femtosecond laser beams. **Oral & Poster** presentation, EMRS Spring meeting 2017 symposium K. Strasbourg, France.

## Awards

- E. Skoulas, E. Stratakis. Biomimetic surface structuring using cylindrical vector femtosecond laser beams. **Young investigator price winner on ERMS** spring meeting 2017. St Symposium K. Strasbourg, France.
- A. Papadopoulos, A. Mimidis, E. Skoulas, E. Stratakis. Ultrafast Laser Fabrication of Biomimetic Micro and Nano structured Surfaces. **Best Poster Award** on 2nd Israel - Greece joint meeting on nanotechnology & bionanoscience. Heraklion, Greece (2017).