

Georgios Ctistis

Curriculum vitae

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Personal information

Born: January 2nd, 1975 in Berlin, Germany

Nationality: German, Greek

ISI Researcher ID: B-6020-2011

Professional Experience

- since Oct 2014 **Assistant Professor**, *Joint position at Saxion University of Applied Sciences & MESA+ Institute for Nanotechnology, Enschede, The Netherlands.*
NanoBio Interface
- Project leader "Lab-on-a-Chip": Nanoparticles, Optics, Micro- and nanofluidics
 - Project leader "Magnetic Nanocomposite Materials": magnetic nanoparticles, composites, optics, magneto-optics
 - Teaching in the M.Sc. study route Nanotechnology
 - Supervision of Ph.D., M.Sc., and B.Sc. students
- 2013–2014 **Postdoctoral fellow**, *Complex Photonic Systems (COPS), MESA+ Institute for Nanotechnology, University of Twente, The Netherlands.*
Applied Quantum Optics.
- Quantum optics, build-up of single photon source, quantum key distribution
 - Supervision of Ph.D., M.Sc., and B.Sc. students
- 2011–2013 **Postdoctoral fellow**, *Joint Position at Complex Photonic Systems (COPS) and Integrated Optical Microsystems (IOMS), MESA+ Institute for Nanotechnology, University of Twente, The Netherlands.*
Reversible slowing of light by nanophotonic phase imprint.
- Ultrafast optics, design of Si nanophotonic structures, photonic crystals
 - Teaching tutorials
 - Supervision of Ph.D., M.Sc., and B.Sc. students
- 2008–2011 **Postdoctoral fellow**, *Complex Photonic Systems (COPS), MESA+ Institute for Nanotechnology, University of Twente and prior at the FOM-Institute for Atomic and Molecular Physics (AMOLF).*
Ultrafast all-optical switching of photonic structures such as planar microcavities, micropillars
- Ultrafast optics, design of Si nanophotonic structures, photonic crystals
 - Teaching tutorials
 - Supervision of Ph.D., M.Sc., and B.Sc. students

2006–2008 **Postdoctoral fellow**, *Nanoparticle Technology group, Center of Advanced European Studies and Research caesar, Bonn (Germany)*.

Near- and far-field optical investigation of nano hole arrays in thin metal films.

- Interaction of light with magnetic sub-wavelength hole arrays.
- Plasmonics, optical spectroscopy, TEM, SEM, nanoparticle fabrication
- Supervision of Ph.D. and M.Sc. students

2001–2006 **PhD fellow**, *Physics Department, Free University of Berlin, Berlin (Germany)*.

Thesis: Second-harmonic generation by means of near-field optical microscopy – Setup and first measurements.

- Development of a scanning near-field optical microscope for operation with fs-laser pulses.
- Optics, near-field optics, ultra-fast physics, and scanning probe techniques.
- Teaching in practical lab courses and giving tutorials.

Teaching Experience

- Experimental Physics (Mechanics and Thermodynamics): built-up of experiments for lectures, giving tutorial course including preparation and afterwards correction of assignments, preparation of and giving of lectures.
- Experimental Physics (Modern Optics): giving tutorial course including preparation and afterwards correction of assignments.
- Electrodynamics: giving tutorial course including preparation and correction of the exams, preparation of presentation subjects for the students and giving them assistance.
- Solid-state physics: giving tutorial courses including preparation and afterwards correction of assignments, preparation of and giving of lectures.
- Practical lab courses for students from other faculties (medicine, pharmacology, and geology).
- Preparation of demonstration experiments and their documentation for public days of the university.

Education

2001–2006 **PhD (Dr. rer. nat.)**, *Free University of Berlin, Berlin (Germany)*, *magna cum laudæ*.

Thesis title: Second harmonic generation by means of near-field optical microscopy – Setup and first measurements. defence: Jul 2006

Supervisors: Prof. Dr. P. Fumagalli and Prof. Dr. F. Forstmann

Development of a scanning near-field optical microscope for operation with fs-laser pulses in transmission for near-field magneto-optics. The work comprised the planning and improvement of the different setups, data analysis, and theoretical modelling of the data.

1995–2001 **Diploma studies in Physics**, *Free University of Berlin, Berlin (Germany)*, *very good*.

Thesis title: Growth studies of MnBi on Si(111) with Reflection High-Energy Electron Diffraction (RHEED) and Auger-electron spectroscopy (AES)

Supervisors: Prof. Dr. P. Fumagalli and Dr. J. J. Paggel

Languages

German native
Greek native
English fluent
Dutch advanced (C1)
French basic (A2)

Computer skills

Programming	Pascal, C/C++, HTML, MATLAB	OS	MacOS, Windows, Linux
Data Analysis	Igor, Origin, Mathematica, MATLAB	extra	Adobe Creative Suite
Text / DTP	MS-Office, TeX/LaTeX, iWork, FrameMaker, InDesign		

Interests

Sports swimming, badminton, jogging
Cultural visiting exhibitions and musea, visiting theater (classic plays), the opera (mostly Italian opera) and the ballet (classic and modern)
Leisure photography, reading (fantasy and science fiction, poetry, classic drama)

Referee activity

- Physical Review Letters
- Applied Physics Letters
- Journal of the Optical Society of America B
- Optics Express
- Annalen der Physik
- Physical Review B
- Journal of Applied Physics
- Applied Optics
- Journal of Modern Optics

Memberships

- Optical Society of America
- German Physical Society



References

Prof. Dr. Willem L. Vos, Complex Photonic Systems (COPS), MESA+ Institute for Nanotechnology, University of Twente, P.O. Box 217, 7500 AE Enschede, The Netherlands

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Prof. Dr. Pepijn W. H. Pinkse, Complex Photonic Systems (COPS), MESA+ Institute for Nanotechnology, University of Twente, P.O. Box 217, 7500 AE Enschede, The Netherlands

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