

Curriculum vitae of **GEORGHII TCHOUDINOV**

EDUCATIONAL INFORMATION

15/11/2024-present **Researcher (assegnista di ricerca) at the University of Camerino (UNICAM)**

15/11/2021-14/11/2024 **Ph.D., Physics, Earth and Materials Sciences, University of Camerino (UNICAM)**

School of Science and Technology (*Fully Funded Scholarship*),

2018-2021 **Master Degree in Physics, University of Camerino** (*grade 110/100 cum laude*)

2014-2017 **First Level Degree in Physics, University of Camerino** (*grade 110/110*).

WORK EXPERIENCE

2023 (*20 hours*) **Tutoring activity for XRF, XPS Laboratory** (*University of Camerino, Italy*)

2022 (*20 hours*) **Tutoring in Teaching Activities** (*for the course of Fluids and Thermodynamics, University of Camerino, Italy*)

2020 (*48 hours*) **Applied Acoustic Laboratory** (*Basic Internship – Acoustical Engineering, University of Camerino, Italy*)

ARTICLES PUBLISHED IN INTERNATIONAL CONFERENCE AND JOURNALS

28 April 2022 **Systematic investigation of relativistic effects in EXAFS data analysis** (*Phys. Rev. B 105, 144109*, <https://doi.org/10.1103/PhysRevB.105.144109>)

6 June 2021 **Relativistic Corrections to Phase Shift Calculation in the GNXAS Package**
(*Symmetry 2021, 13, 1021*. <https://doi.org/10.3390/sym13061021>)

25 April 2023 **Local structure of solid and liquid Au as a function of temperature by x-ray absorption spectroscopy** (*Phys. Rev. B 107, 184107*. <https://link.aps.org/doi/10.1103/PhysRevB.107.184107>)

6 April 2023 **EXAFS investigations on the pressure induced local structural changes of GeSe2 glass under different hydrostatic conditions** (*J. Phys.: Condens. Matter 35 (2023) 264001 (9pp)*, <https://doi.org/10.1088/1361-648X/acc8b1>)

PROJECTS

21-25 September 2022 **Investigation of the probing depths of soft x-ray absorption technique via the mean free path calculation** (*Elettra Synchrotron accepted Proposal*)

November 2021-November 2024 **Characterization of surfaces and interfaces using Synchrotron Radiation in the soft X-ray range / Ph.D. Project** (*UNICAM-ELETTRA Synchrotron Radiation Center, Trieste*)

October 2021 **Relativistic Corrections to Phase Shift Calculation in the GNXAS Package** (*Master Thesis, University of Camerino*)

CONFERENCES

21-23 June 2021 **The annual meeting of the Italian Synchrotron Radiation Society (SILS)** (*Contributed Talk*)

9-11 September 2024 poster presentation at the conference **Low Energy Electron Lithography, Imaging, Soft Matter and Application in Patterning**, IMEC (*Leuven, Belgium*)

LANGUAGE INFORMATION

Russian, Italian (*Native Language*),

English (B2), (*University of Camerino / UNICAM – Language School*).

COMPUTER SKILLS

FORTRAN, C, Python, LaTeX.

CERTIFICATES

July 2022 **18TH INTERNATIONAL CONFERENCE ON X-RAY ABSORPTION FINE STRUCTURE (XAFS) 2022**
(*Sydney, Australia*)

19-30 September 2022 **16th School on Synchrotron Radiation: Fundamentals, Methods and Applications**
(*Trieste, Italy*)

06-10 February 2023 **Quantum and Molecules II Winter School (QUEUE II)**
(*Gdansk, Poland*)

19-30 June 2023 **EUSpeclab Introductory Training School on Spectroscopies**
(*San Benedetto del Tronto, Italy*)

5-7 September 2024 **SILS conference**
(*Rende, Italy*)

MEMBERSHIP

01/01/2023 – 31/12/2023 Elettra partner (Elettra Synchrotron, Trieste, Italy)

09/02/2022-14/11/2024 IOM collaborator (Consiglio Nazionale delle Ricerche, Istituto Officina dei Materiali)

REFERENCES

1. Andrea Di Cicco

University of Camerino, Italy, since 2015 President of the Italian Synchrotron Light Society (SILS), Director of the Physics Division of UNICAM, Full Professor. **Contact information:** andrea.dicicco@unicam.it

2. Calogero Renzo Natoli

INFN Laboratori Nazionali di Frascati, c.p. 13, I-00044. **Contact information:** Calogero.Natoli@Inf.infn.it

3. Stefano Nannarone

Scientific responsible IOM-CNR BEAR beamline (Elettra Synchrotron, Trieste, Italy). **Contact information:** nannarone@iom.cnr.it