

Imperial College London, Blackett Laboratory (Astrophysics Group), Prince Consort Road, London SW7 2AZ, UK

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Education

DOCTOR OF SCIENCES

ETH Zürich Zürich, Switzerland

• Thesis Title: Physical Understanding of Solar Irradiance in UV and Radio Wavelengths.

· Scientific Advisors: Dr. Alexander Shapiro, Prof. Dr. Werner Schmutz

Saint-Petersburg State University

SPECIALIST DIPLOMA IN ASTRONOMY

- Thesis Title: Physical Conditions in Molecular Clouds at High Redshifts.
- · Scientific Advisor: Dr. Alexandre Ivanchik

Saint-Petersburg, Russia

Sep. 2006 - Jun. 2011

Sep. 2011 - Oct. 2016

Skills

Science Numerical Radiative Transfer, NLTE effects, Solar Irradiance Modeling

Programming Fortran, Python, Linux, LaTeX, IDL

Languages Russian (native), English (fluent), German (basic)

Experience ____

Imperial College London London, UK

RESEARCH ASSOCIATE Oct. 2016 — PRESENT

· Radiative transfer code development, solar spectrum modeling, solar irradiance variability modeling

Physical-Meteorological Observatory Davos

PHD STUDENT

· Radiative transfer code development, solar spectrum modeling, solar irradiance variability modeling

Ioffe Physical-Technical Institute

RESEARCH ASSISTANT

• Physics of interstellar medium in the early Universe

Davos, Switzerland

Sep. 2011 — Sep. 2016

Sep. 2010 - Jun. 2011

Saint-Petersburg, Russia

Teaching

Faculty of Natural Sciences

FIRST YEAR COMPUTATIONAL PROJECT SUPERVISOR (4 STUDENTS, 2 PROJECTS)

Project #1: Modeling airplane boarding process using statistical mechanics

• Project #2: Modeling rainbow formation

Faculty of Natural Sciences

FIRST YEAR COMPUTATIONAL PROJECT SUPERVISOR (2 STUDENTS, 1 PROJECT)

• Project: Identification and study of solar active regions using HMI/SDO images

Department of Mechanical Engineering

PHYSICS LABORATORY PRACTICUM ASSISTANT

• Lab experiment practice instruction and supervision

Department of Physics

PHYSICS III COURSE ASSISTANT

• Excercise classes on optics, statistical mechanics and quantum mechanics

Department of Physics

PHYSICS II COURSE ASSISTANT

• Excercise classes on classical mechanics

Imperial College London

Mar. 2018 — PRESENT

Imperial College London

Mar. 2017 — June 2017

ETH Zürich

Sep. 2013 — Dec. 2014

ETH Zürich

Oct. 2012 - Feb. 2013

ETH Zürich

Feb. 2012 - May 2012

2017

- R. V. Tagirov, A. I. Shapiro and W. Schmutz

 NESSY: NLTE spectral synthesis code for solar and stellar atmospheres

 Astronomy & Astrophysics, 603, A27
- G. Thuillier, P. Zhu, A. I. Shapiro, S. Sofia, R. V. Tagirov, M. van Ruymbeke and W. Schmutz Solar disk radius determined from observations made during eclipses by bolometric and photometric instruments on-board the PICARD satellite Astronomy & Astrophysics, 603, A28
- J. Gröbner, S. Kazadzis, N. Kouremeti, L. Doppler, R. V. Tagirov, and A. I. Shapiro Spectral solar variations during the eclipse of March 20th 2015 at two European sites American Institute of Physics Conference Proceedings, 1810, 1

2016

• G. Cessateur, ..., R. V. Tagirov, et al. Solar irradiance observations with PREMOS filter radiometers on the PICARD mission: In-flight performance and data release Astronomy & Astrophysics, 588, A126

2015

 A. I. Shapiro, S. K. Solanki, N. A. Krivova, R. V. Tagirov and W. K. Schmutz The role of the Fraunhofer lines in solar brightness variability Astronomy & Astrophysics, 581, A116

Presentations

Sun-climate group seminar of Max-Planck-Institute for Solar System Research

MPS, Göttingen, Germany

INVITED TALK

Fixing Λ -Iterations in the NESSY code

Solar Metrology: Needs and Methods

Paris, France

Nov. 2015

CONFERENCE POSTER

Oct. 2014

Fast NLTE radiative transfer numerical scheme for solar spectrum modeling

Davos Atmosphere and Cryosphere Assembly (DACA-13)

Davos, Switzerland

CONFERENCE POSTER

Jul. 2013

Analysis of the solar eclipses observed with PREMOS/PICARD

8th European Space Weather Week

Namur, Belgium

CONFERENCE SPLINTER-SESSION TALK

Nov. 2011

Analysis of the solar eclipses observed with PREMOS/PICARD

References

Dr. Yvonne Unruh

READER IN ASTROPHYSICS

Imperial College London

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Dr. Alexander Shapiro

SCIENTIST, ERC RESEARCH GROUP SOLVE LEADER

Max-Planck Institute for Solar System Research

Department Sun and Heliosphere

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Prof. Dr. Werner Schmutz

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