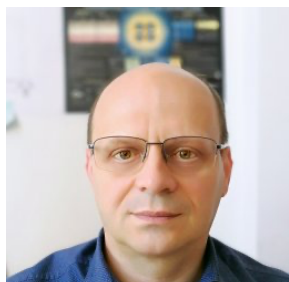


PERSONAL INFORMATION

Cătălin AGHEORGHIESEI



📍 “Alexandru Ioan Cuza” University of Iași

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✉ catalin.agheorghiesei@uaic.ro

🌐 www.plasma.uaic.ro

Sex Male | Date of birth 06/10/1969 | Nationality Romanian

POSITION WITHIN THE PROJECT

Member

WORK EXPERIENCE

- 2003-2019 **Lecturer PhD**
University “Alexandru Ioan Cuza” of Iasi, 11 Blvd. Carol I, 700506 Iasi, Romania, www.uaic.ro
- Teaching Optics, Lasers in Medicine, Fiber Optics Communication, Virtual Instrumentation, Experimental Data Computation, Forensic Microscopy, Forensic Spectroscopy
 - Scientific research
- Business or sector** Education, Faculty of Physics
- 2000-2003 **Assistant**
University “Alexandru Ioan Cuza” of Iasi, 11 Blvd. Carol I, 700506 Iasi, Romania, www.uaic.ro
- Teaching Optics, Lasers in Medicine, Fiber Optics Communication, Virtual Instrumentation, Experimental Data Computation, Forensic Microscopy, Forensic Spectroscopy
 - Scientific research
- Business or sector** Education, Faculty of Physics
- 1995-2000 **High School Teacher**
Gr. Sc. “Dumitru Mangeron” Iasi Romania, 41, Blvd Poitiers, 700699 Iasi, Romania
- Teaching High School Physics
- Business or sector** Education

EDUCATION AND TRAINING

- 1996-2001 **PhD** Doctorate, Level 8
University “Alexandru Ioan Cuza” of Iasi, 11 Blvd. Carol I, 700506 Iasi, Romania, www.uaic.ro
- Plasma Physics
 - Plasma Instabilities
 - Plasma experimental and computer simulation

1994-1995	Master	Master Diploma Level 7
	University “Alexandru Ioan Cuza” of Iasi, 11 Blvd. Carol I, 700506 Iasi, Romania, www.uaic.ro	
1989-1994	Bachelor	Graduate Diploma Level 6
	University “Alexandru Ioan Cuza” of Iasi, 11 Blvd. Carol I, 700506 Iasi, Romania, www.uaic.ro	
1984-1988	High School Diploma	Level 5
	“Emil Racovita” College of Iasi, Romania ▪ Physics & Chemistry	

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	B2	B1	B2
French	C1	C2	B2	B1	A2

Communication skills ▪ good communication skills gained through my experience as physics teacher and international research collaboration

Organisational / managerial skills ▪ Member in organization of several scientific meetings: ICPIG 2015, European Night Researchers 2013-2015, InterACADEMIA 2006, Conference of Plasma Physics and Application 2003 and 2005, Plasma Summer school, Physics and chemistry of the atmosphere: from laboratory experiments to field campaigns 2006
 ▪ Manager for Science Night 2016, 2017
 ▪ Manager European Night Researchers 2019-2020, H2020, GA no. 818795/2018 (<https://cordis.europa.eu/project/rcn/217997/factsheet/en>)

Job-related skills ▪ Fields of expertise/number of published papers: plasma physics/12; optics and spectroscopy/6
 ▪ Fields of expertise/number of published papers: High Energy Particle Physics, nuclear physics/405 in ATLAS Collaboration in CERN Geneva
 ▪ Scientific grants (total number): member in 11 scientific grants since 2000, active in 2019 into 2 research projects:
 1. PNIII/P5/5.2/Modulul CERN-RO „Experimentul ATLAS de la LHC”
 2. PNIII/P5/5.2 /Modul EURATOM-RO Fuziune, contract nr. 1EU-1/2 / 01.07.2016
 ▪ number of ISI cited scientific papers:
 ➤ SCOPUS: 414 articles / 13130 citations, h=60
<https://www.scopus.com/authid/detail.uri?authorId=14027901400>
 ➤ ISI Web Of Science 431 articles / 8319 citations h=46
<https://publons.com/researcher/1357143/catalin-agheorghiesei/>
 ➤ Google Scholar: 664 indexed documents / 36574 citations h=108
<https://scholar.google.ro/citations?user=VYx9bw4AAAAJ&hl=ro>
 ➤ Inspire Net 405 indexed documents / 12200 citations h=60
<http://inspirehep.net/author/profile/C.Agheorghiesei.1>

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

- Excellent command of office suite (word processor, spread sheet, presentation software)
- Expertise in Computer Data Acquisition and processing: C++, Matlab, LabVIEW, Python

ADDITIONAL INFORMATION

Publications

Most cited (extract)

Title: Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at root s=8 TeV with the ATLAS detector
 Source: EUROPEAN PHYSICAL JOURNAL C Volume: 75 Issue: 7 Article Number: 299 DOI: 10.1140/epjc/s10052-015-3517-3 Published: JUL 1 2015
 Total Times Cited: 220

Title: Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at root s=13 TeV with the ATLAS detector
 Source: PHYSICAL REVIEW D Volume: 96 Issue: 7 Article Number: 072002 DOI: 10.1103/PhysRevD.96.072002 Published: OCT 13 2017
 Total Times Cited: 200

Title: Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector
 Source: JOURNAL OF HIGH ENERGY PHYSICS Issue: 1 Article Number: 126 DOI: 10.1007/JHEP01(2018)126 Published: JAN 25 2018
 Total Times Cited: 198

Title: Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector
 Source: PHYSICS LETTERS B Volume: 784 Pages: 173-191 DOI: 10.1016/j.physletb.2018.07.035 Published: SEP 10 2018
 Total Times Cited: 168

Title: Search for new phenomena in dijet events using 37 fb(-1) of pp collision data collected at root s=13 TeV with the ATLAS detector
 Source: PHYSICAL REVIEW D Volume: 96 Issue: 5 Article Number: 052004 DOI: 10.1103/PhysRevD.96.052004 Published: SEP 28 2017
 Total Times Cited: 157

Title: Observation of H -> b(b)over-bar decays and V H production with the ATLAS detector
 Source: PHYSICS LETTERS B Volume: 786 Pages: 59-86 DOI: 10.1016/j.physletb.2018.09.013 Published: NOV 10 2018
 Total Times Cited: 144

Title: Combined measurements of Higgs boson production and decay using up to 80 fb(-1) of proton-proton collision data at root S=13 TeV collected with the ATLAS experiment
 Source: PHYSICAL REVIEW D Volume: 101 Issue: 1 Article Number: 012002 DOI: 10.1103/PhysRevD.101.012002 Published: JAN 3 2020
 Total Times Cited: 137

Title: Evidence for light-by-light scattering in heavy-ion collisions with the ATLAS detector at the LHC

Source: NATURE PHYSICS Volume: 13 Issue: 9 Pages: 852-+ DOI: 10.1038/NPHYS4208 Published: SEP 2017

Total Times Cited: 138

Title: Search for high-mass dilepton resonances using 139 fb(-1) of pp collision data collected at root s=13 TeV with the ATLAS detector

Source: PHYSICS LETTERS B Volume: 796 Pages: 68-87 DOI: 10.1016/j.physletb.2019.07.016 Published: SEP 10 2019

Total Times Cited: 107

Title: Performance of missing transverse momentum reconstruction with the ATLAS detector using proton proton collisions at root s=13 TeV

Source: EUROPEAN PHYSICAL JOURNAL C Volume: 78 Issue: 11 Article Number: 903 DOI: 10.1140/epjc/s10052-018-6288-9 Published: NOV 8 2018

Total Times Cited: 107

Title: Search for new phenomena in high-mass diphoton final states using 37 fb(-1) of proton-proton collisions collected at root s=13 TeV with the ATLAS detector

Source: PHYSICS LETTERS B Volume: 775 Pages: 105-125 DOI: 10.1016/j.physletb.2017.10.039 Published: DEC 10 2017

Total Times Cited: 108

Title: Search for new high-mass phenomena in the dilepton final state using 36 fb(-1) of proton-proton collision data at root s=13 TeV with the ATLAS detector

Source: JOURNAL OF HIGH ENERGY PHYSICS Issue: 10 Article Number: 182 DOI: 10.1007/JHEP10(2017)182 Published: OCT 26 2017

Total Times Cited: 102

Title: Measurement of the W-boson mass in pp collisions at root s=7 TeV with the ATLAS detector

Source: EUROPEAN PHYSICAL JOURNAL C Volume: 78 Issue: 2 Article Number: 110 DOI: 10.1140/epjc/s10052-017-5475-4 Published: FEB 6 2018

Total Times Cited: 91

Title: Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in root s=13 TeV pp collisions using the ATLAS detector

Source: EUROPEAN PHYSICAL JOURNAL C Volume: 80 Issue: 2 Article Number: 123 DOI: 10.1140/epjc/s10052-019-7594-6 Published: FEB 14 2020

Total Times Cited: 89

Title: ATLAS b-jet identification performance and efficiency measurement with t(t)over-bar events in pp collisions at root s=13 TeV

Source: EUROPEAN PHYSICAL JOURNAL C Volume: 79 Issue: 11 Article Number: 970 DOI: 10.1140/epjc/s10052-019-7450-8 Published: NOV 2019

Total Times Cited: 69

Title: Performance of electron and photon triggers in ATLAS during LHC Run 2

Source: EUROPEAN PHYSICAL JOURNAL C Volume: 80 Issue: 1 Article Number: 47 DOI: 10.1140/epjc/s10052-019-7500-2 Published: JAN 22 2020

Total Times Cited: 53