Curriculum Vitae Dr. Panos Christakoglou Associate Professor – Maastricht University <u>Panos.Christakoglou@maastrichtuniversity.nl</u> Senior scientist – Nikhef <u>Panos.Christakoglou@nikhef.nl</u> <u>http://pchrist.web.cern.ch/</u>

WORK:	Maastricht University	Nikhef
	Paul-Henri Spaaklaan 1	Science Park 105
	6229 EN	1098XG
	Maastricht	Amsterdam
	The Netherlands	The Netherlands
	+31 646 81 21 62	+31 20 592 5162

EDUCATION

2003 – 2007:	PhD in nuclear and elementary particle physics
	National and Kapodistrian University of Athens, Greece
	"Study of charge correlations in heavy-ion interactions at NA49-SPS and ALICE-LHC"
2000 – 2003:	MSc in nuclear and elementary particle physics
	National and Kapodistrian University of Athens, Greece
	"Study of resonances in pp collisions at NS49-SPS"
1999 – 2001:	Diploma in computing applications and programming
	Public Institute for Professional Preparation
	Athens, Greece
1995 – 2000:	BSc in physics
	National and Kapodistrian University of Athens, Greece

PROFESSIONAL ACTIVITY

2024 – Today:	Associate Professor
	Maastricht University
2021 – 2024:	Guest Professor
	TU Delft, the Netherlands
2016 – 2024:	Guest Professor
	Utrecht University, the Netherlands
2010 – TODAY:	Senior scientist
	Nikhef, Amsterdam, the Netherlands
2007 – 2010:	Postdoctoral researcher
	Utrecht University, the Netherlands
2005 – 2007:	Marie Curie research fellow
	CERN, Switzerland

TEACHING ACTIVITY

"Particle Physics II - QCD"
MSc course
University of Amsterdam (GRAPPA track), the Netherlands
"Introduction to elementary particle physics"
1 st year BSc course
TU Delft, the Netherlands
"Subatomic Physics"
3 rd year BSc course
Utrecht University, the Netherlands
"Particle Physics II"
MSc course
Utrecht University, University of Amsterdam & Vrije Universiteit Amsterdam, the
Netherlands
"GRID analysis framework"

	Courses for mem CERN, Switzerland		LICE Collaboration		
2005 – 2007:	"The offline fram		.F″		
2000 20071			LICE Collaboration		
	CERN, Switzerland	b			
RESEARCH ACTIVITY					
2022 – TODAY:				ed NWO proposal) that studies the	
				ne conditions, making the	
		•		nal wave physics and astronomy	
2021 – Today:	• • •			ALICE detector (ALICE3) for run 5	
2014 – 2020:		•	and beauty measur		
2014 – 2020.		imulations	inner fracking syst	em of ALICE for run 3-4 at the LHC	
	•	Control Syst	em		
2010 – Today:	Leading the ALICE				
	-	agnetic effect			
		lependent co			
	- Event-by	-event physic	cs		
	- Anisotro	pic flow meas	surements		
2007 – 2010:	Led the "First Phy	sics Program	" of ALICE on baryo	n transport mechanisms studies	
2005 – 2007:		veloper of the	e analysis framewo	rk on the GRID for ALICE at the	
	LHC.	C . 1			
	- Member framewo		leveloping team of	ALICE's reconstruction and offline	
1998 – 2007:			ent at the SPS (CERI	NI)	
1998-2007.				pendent correlations at SPS	
	energies		inclus of charge ac		
			production in pp at	SPS energies	
PUBLICATIONS					
Citation summary r	esults Cite	able papers	Published only		
Total number of pap	ers analyzed:	474	436		
Total number of cita	tions.	52 522	51 980		

Total number of papers analyzed:	474	436
Total number of citations:	52,533	51,980
Average citations per paper:	110,8	119,2
Breakdown of papers by citations:		
Renowned papers (500+)	15	15
Famous papers (250-499)	38	38
Very well-known papers (100-249)	90	88
Well-known papers (50-99)	107	107
Known papers (10-49)	166	154
Less known papers (1-9)	47	32
Unknown papers (0)	11	2
h _{HEP} index	121	121

Selected list of publications

- "Probing the magnetic field strength dependence of the Chiral Magnetic Effect", submitted to EPJC arXiv:2308.02361 [nucl-th]
- "Systematic study of the chiral magnetic effect with the AVFD model at LHC energies", <u>Eur.Phys.J.C 81</u> (2021) 8, 717
- "Constraining the Chiral Magnetic Effect with charge-dependent azimuthal correlations in Pb-Pb collisions at sqrt{s_{NN}} = 2.76 and 5.02 TeV", JHEP 09 (2020) 160
- "Constraining the magnitude of the Chiral Magnetic Effect with Event Shape Engineering in Pb-Pb collisions at sqrt{s_{NN}} = 2.76 TeV", Phys. Lett. B 777 (2018) 151
- "Charge separation relative to the reaction plane in Pb-Pb collisions at sNN = 2.76 TeV", <u>Phys.Rev.Lett.</u> <u>110 (2013)</u>

- "Non-linear flow modes of identified particles in Pb-Pb collisions at sqrt{s_{NN}} = 5.02 TeV", <u>JHEP06</u> (2020) 147
- "Investigations of Anisotropic Flow Using Multiparticle Azimuthal Correlations in pp, p-Pb, Xe-Xe, and Pb-Pb Collisions at the LHC", <u>Phys.Rev.Lett. 123 (2019) 14, 142301</u>
- "Higher harmonic flow coefficients of identified hadrons in Pb-Pb collisions at sqrt{s_{NN}} = 2.76 TeV", JHEP 09 (2016) 164
- "Anisotropic flow of charged particles in Pb-Pb collisions at sqrt{s_{NN}} = 5.02 TeV", <u>Phys.Rev.Lett.</u> <u>116 (2016)</u>
- "Event shape engineering for inclusive spectra and elliptic flow in Pb-Pb collisions at sNN = 2.76 TeV", <u>Phys.Rev. C93 (2016)</u>
- "Experimental overview of collective flow with identified particles at RHIC and the LHC", <u>EPJ Web</u> Conf. 90 (2015) 08004
- "Multiparticle azimuthal correlations in p -Pb and Pb-Pb collisions at the CERN Large Hadron Collider", <u>Phys.Rev. C90 (2014)</u>
- "Elliptic flow of identified hadrons in Pb-Pb collisions at sNN = 2.76 TeV", JHEP 1506 (2015) 190
- "Azimuthally-differential pion femtoscopy relative to the third harmonic event plane in Pb-Pb collisions at vsNN =2.76 TeV", <u>Phys. Lett. B 785 (2018) 320</u>
- "Anomalous evolution of the near-side jet peak shape in Pb-Pb collisions at sqrt{s_{NN}} = 2.76 TeV", Phys. Rev. Lett. 119 (2017), 102301
- "Multiplicity and transverse momentum evolution of charge-dependent correlations in pp, p–Pb, and Pb–Pb collisions at the LHC", <u>Eur.Phys.J. C76 (2016)</u>
- "Event-by-event mean pT fluctuations in pp and Pb-Pb collisions at the LHC", Eur.Phys.J. C74 (2014)
- "Charge correlations using the balance function in Pb-Pb collisions at sNN = 2.76 TeV", <u>Phys.Lett. B723</u> (2013) 267
- "Net-Charge Fluctuations in Pb-Pb collisions at sNN = 2.76 TeV", <u>Phys.Rev.Lett. 110 (2013)</u>
- "Technical Design Report for the Upgrade of the ALICE Inner Tracking System", <u>J.Phys. G41 (2014)</u> 087002
- "Performance of the ALICE Experiment at the CERN LHC", <u>Int.J.Mod.Phys. A29 (2014) 1430044</u>
- "Overview of results from ALICE at the CERN LHC", EPJ Web Conf. 70 (2014) 00023
- "QCD and Strongly Coupled Gauge Theories: Challenges and Perspectives", Eur. Phys. J. C74 (2014)
- "Results on angular correlations with ALICE", J.Phys.Conf.Ser. 509 (2014) 012024
- "Mid-rapidity anti-baryon to baryon ratios in pp collisions at sqrt{s} = 0.9, 2.76 and 7 TeV measured by ALICE", <u>Eur.Phys.J. C73 (2013) 2496</u>
- "Midrapidity antiproton-to-proton ratio in pp collisions at s = 0.9 and 7 TeV measured by the ALICE experiment", <u>Phys.Rev.Lett. 105 (2010) 072002</u>

PRESENTATIONS - INVITED TALKS

2022	 "Heavy ion physics", colloquium speaker at Rijksuniversiteit Groningen, December 2022, Groningen, the Netherlands
	- "Experimental overview on searches for early stage E/M fields and novel QCD
	phenomena", invited talk at the "Zimanyi winter school on heavy-ion physics",
	December 2020, Budapest, Hungary
	 "Searches for early stage E/M fields and novel QCD phenomena at the LHC", invited
	speaker at the "Chirality, Vorticity and magnetic fields in heavy ion collisions"
	workshop, December 2021, UCLA, USA
	 Experimental overview on searches for early stage E/M fields and novel QCD
	phenomena", invited talk at the "The 28th International Nuclear Physics Conference",
	September 2021, Cape Town, South Africa
	- "Studying primordial matter in the laboratory latest results and future perspectives",
	colloquium speaker at Fundan University, June 2022, Shanghai, China (online)
2021	- "Searches for chiral anomalies with ALICE", invited talk at the "Zimanyi winter school
	on heavy-ion physics", December 2020, Budapest, Hungary
	 "Searches for chiral anomalies with ALICE", invited speaker at the "The 6th
	International conference on chirality, vorticity and magnetic field in heavy ion
	collisions", November 2021, Stonybrook, USA

		lying primordial matter in the laboratory", invited speaker at the Padna University, ember 2021, Bangladesh
	"XIVt	rview of heavy ion experiment results and perspectives", invited speaker at the h Quark Confinement and the Hadron Spectrum conference", August 2021, online
2020	winte	lies of novel QCD phenomena in heavy-ion collisions", invited talk at the "Zimanyi er school on heavy-ion physics", December 2020, Budapest, Hungary
	meas	erimental overview of chiral anomalies", invited speaker at the "Polarisation urements in ee, ep, pp and heavy-ions collisions" workshop, December 2020, . France
	- "Look Collo	king for novel QCD phenomena using the strongest magnetic field in nature", quium at Univsersity of Houston, to be given in November 2020, Houston, USA
2019	"Zima	ief review of collective effects at the LHC: lessons and puzzles", invited talk at the anyi winter school on heavy-ion physics", December 2019, Budapest, Hungary
	"New	n large to small systems: collective and novel QCD effects", invited speaker at the developments in hydrodynamics and its application in heavy-ion collisions", shop, October 2019, Shanghai, China
	- "The	hottest (QCD) matter on earth as studied in the laboratory", Colloquium at the Bohr Institute, October 2019, Copenhagen, Denmark
2018	- "Anis	otropic flow studies at the LHC: a tool to characterize the QGP", invited talk at the
	- "Prob	anyi winter school on heavy-ion physics", December 2018, Budapest, Hungary ping primordial matter in the laboratory with heavy-ion collisions", Invited Utrecht ersity seminar, March 2018, Utrecht, The Netherlands
2017	- "Anis stage	otropic flow studies of identified particles with ALICE: a tool to probe different s of a heavy-ion collision", Invited EP-LHC CERN seminar, January 2017, CERN, erland
	- "Colle	ective effects in small systems: an experimental overview", Invited speaker at the esonances Workshop, October 2017, Bergamo, Italy
	- "Prob	ping primordial matter in the laboratory with heavy-ion collisions: status and pects", invited NNV seminar, November 2017, Lunteren, The Netherlands
2016	invite	erimental overview of collective flow with identified particles at RHIC and LHC", ed talk at the "XIIth Quark Confinement and the Hadron Spectrum", August 2016, saloniki, Greece
	- "Azim	nuthal correlations with identified particles at RHIC and LHC", invited talk at the any i winter school on heavy-ion physics", December 2016, Budapest, Hungary
2015		tiplicity and transverse momentum dependence of electric charge balance ions", invited talk at "Quark Matter 2015", October 2015, Kobe, Japan
2014	- What	have we learned from angular correlation analyses in p-Pb collisions?", invited
		t the Bose Institute for the "International conference on matter under extreme itions: there and now", January 2014, Kolkata, India
		elations and fluctuations analyses in ALICE", ALICE-India meeting seminar, January , Kolkata, India
		elation studies from ALICE", invited talk at the "Nikhef annual meeting", mber 2014, Nijmegen, The Netherlands
2013	- "Angı	ular correlations at the LHC with ALICE", invited speaker at the "Zimanyi winter
		ol on heavy-ion physics", December 2013, Budapest, Hungary ular correlations in p-Pb and Pb-Pb collisions at the LHC", invited speaker at the "IX
	Work	shop on particle correlations and femtoscopy", November 2013, Catania, Italy
		ults on angular correlations with ALICE", invited speaker at the "Strangeness in k Matter", July 2013, Birmingham, UK
		nars over the Chiral Magnetic Effect at the "International school on Quark Gluon na and heavy-ion collisions", July 2013, Siena, Italy
2012	- "Char	ge correlations and balance functions at the LHC", invited speaker at the "Zimanyi
	- "Bala	er school on heavy-ion physics", December 2012, Budapest, Hungary nce function studies at the LHC", invited speaker at the "VIII Workshop on particle
	corre	lations and femtoscopy", November 2012, Frankfurt, Germany

- "Overview of results from ALICE at the LHC", invited speaker at the "International conference on new frontiers in physics", June 2012, Crete, Greece
- "Charge dependent correlations with the ALICE detector at the LHC", invited speaker at the "Workshop on P- and CP-odd effects in hot and dense matter", June 2012, New York, USA

2011

- "Charge dependent correlations at the LHC", invited speaker at the "Rutherford centennial conference on nuclear physics", August 2011, Manchester, UK
- "First results from fluctuation studies at the LHC", invited speaker at the "International Europhysics Conference on High Energy Physics", July 2011, Grenoble, France
- "QCD phase transition, hydrodynamics, hadronization", lecture during the students' day at "Quark Matter", May 2011, Annecy, France
- "Charge dependent azimuthal correlations in Pb-Pb collisions at sqrt{sNN} = 2.76 TeV", invited speaker at "Quark Matter", May 2011, Annecy, France

SUPERVISION - MENTORING

- 3 postdoctoral researchers
- 8 PhD candidates (3 ongoing)
- 24 MSc students (5 ongoing)
- 16 BSc students

LEADERSHIP POSITIONS

2020 – Today:	Deputy team leader at Nikhef
2022 – Today:	Member of the Editorial Board of ALICE
2018 – Today:	Member of the LHC Computing Resources Scrutiny Group (Dutch representative)
2016 – Today:	Member of the Computing Board of ALICE
2016 – 2019:	Member of the conference committee of ALICE (2 nd mandate)
2015 – 2019:	Chair of the staff meetings of Nikhef
2013 – 2016:	Member of the Physics Board of ALICE
2013 – 2016:	Physics convener "Correlations and Fluctuations" (ALICE)
2010-2013:	Member of the conference committee of ALICE (1 st mandate)
2005 – 2012:	 Physics convener of the Event-by-Event group, part of the PWG2 of ALICE Software and analysis coordinator of the Event-by-Event group
2005 – 2009:	Software and analysis coordinator of the Physics Working Group 2 (PWG2 – Soft physics) of ALICE.
GRANTS – FELLOWSHIPS	
2022:	Co-author of the funded proposal "Probing the phase diagram of quantum chromodynamics" by a Dutch consortium consisting of gravitational wave scientists, astronomers and astrophysicists, nuclear and collider physicists, and theoreticians (3.1M€)
2020:	Co-author of the funded proposal "FUSE" for the Dutch contribution to the LHC computing resources (12M€)
2005:	Marie Currie fellow at CERN, Switzerland
Awards	
2019 – 2020:	Runner up "Teacher of the year", Physics Department at Utrecht University
2018 – 2019:	"Teacher of the year", Physics Department at Utrecht University
2017 – 2018:	"Teacher of the year", Physics Department at Utrecht University
OUTREACH	
In the press	 "Higher anisotropic modes with ALICE", CERN Courier, September 2016 edition "ALICE and the flowing particle zoo", CERN Courier, July 2014 edition "Can heavy-ion collisions cast light on strong CP?", CERN Courier, October
	2012 edition

	 "The window opens on physics at 7TeV", CERN Courier, October 2010 edition
2015 – Today:	Invited speaker on various physics topics (e.g. particle physics, solar system, universe) at primary and high schools in the Netherlands
2011 – Today:	Responsible for the ALICE contribution at the "Open dag" of Nikhef
2011 – Today:	Short seminars at schools
2011 – Today:	Guiding tours at Nikhef for high school and bachelor students' visits
2011 – Today:	Seminars at Nikhef for high school and bachelor students' visits
2006 – 2011:	Guide for Greek schools and visitors at CERN
2006 - 2007:	Setting up the Masterclass project at CERN
Administration	
2016:	Computing course preparation committee (Utrecht University)
2014 – Today:	Representative of the group of ALICE at the "Computer Gebruikers
	Overleg – CGO" of Nikhef
2014 – Today:	Software coordinator of the ALICE group at Nikhef
2013 – Today:	Member of the library committee of Nikhef,
2012 – Today:	Responsible for the Dutch Tier-1 resources for ALICE
	SHOP/SEMINAR ORGANIZATION
2020 – Today:	Member of the International Advisory Committee of the Zimanyi school of Physics, Budapest, Hungary
2017	Chair of the Alice Physics Week, held in Amsterdam
2017	Chair of the XII Workshop on Particle Correlations and Femtoscopy, held at Nikhef, Amsterdam
2015	Co-chair of the organizing committee of the topical lectures for PhD students held at Nikhef with the topic "Kinetic theory, Hydrodynamics and AdS/CFT to model heavy-ion collisions
2012	Co-chair of the organizing committee of the annual meeting of Nikhef, held in Utrecht
2011 – 2017:	Chair of the scientific seminars at Nikhef
2010 – Today:	Member of the International Advisory Committee of the "Workshop on
	particle correlations and femtoscopy – WPCF"
2009:	Member of the Local Organizing Committee of the "V Workshop on particle correlations and femtoscopy – WPCF", held at CERN