

Contact Information

Concordia University Loyola Campus Department of Physics SP 365.18 7141 Sherbrooke Street West Montreal, QC H4B 1R6 Canada

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Personal Information

Date of birth 28/05/1990 Place of birth Izmir, Turkey

Languages

Native Turkish Advanced English Beginner French

Programming

FORTRAN, PYTHON, MATLAB, C++, Bash shell scripting, MATHEMATICA, LaTeX

Research interests

Particle Physics Phenomenology Beyond the Standard Model phenomenology Supersymmetric extensions of the Standard Model Dark Matter candidates in supersymmetric and non-supersymmetric models LHC Phenomenology Grand unified theories Electroweak symmetry breaking

Education

since 2016	Ph.D. candidate in Physics Dark matter phenomenology in supersymmetric exter Under the supervision of Prof. Mariana Frank	Concordia University ntions of Standard Model
2016–2017	Inter-University Transfer Student Physics 610 Quantum Field Theory I given by Prof. S Physics 673 Quantum Field Theory II given by Prof.	
2014–2016	M.Sc. in Physics The Higgs boson and right-handed neutrinos in super Under the supervision of Prof. Durmus Ali Demir	Izmir Institute of Technology ersymmetric models
2009–2014	B.Sc. in Physics (Ranked 3rd) Revisiting N-symmetric barrier tunneling in Quantum Under the supervision of Prof. Ramazan Tuğrul Seng	

Experience

Since 2016	16 Concordia University Teaching Assista PHYS 367: Modern Physics and Relativity (Tutor, 2019 Winter)		
	PHYS 245 Classical Mechanics (Tutor, 2018 Fall) PHYS 252 Optics given by Dr. Ingo Salzmann (TA, 2018 Winter) PHYS 236 Numerical Analysis in Physics (TA, 2017 Fall)		
PHYS 224 Introductory Experimental Mechanics (Lab Assistant) PHYS 252 Optics given by Dr. Gabriel Rosenbaum (TA, 2017 Winter)		ant)	
		7 Winter)	
	PHYS 236 Numerical Analysis in Physics (TA, 2016 Fall)		
Since 2016	Concordia University	Research Fellow	
	Mariana Frank Research Group		
2015-2016	TUBITAK Project No: 114F461	Research Fellow	
Muon Anomalous Magnetic Moment and Yukawa Quasi-Unification		fication in	
	Supersymmetric Models		
	Under the supervision of Assoc. Prof. Cem Salih Ün		
2012–2012	Koç University, Mechanical Characterization Lab	Internship	
	Vibration modeling in nanowire resonators with mechanical of	coupling	

Under the supervision of Assoc. Prof. Erdem Alaca

Activities

2015	Introduction to Supersymmetry Summer School (2015, September 7-11)	Boğaziçi University
2015	METU HEP Days (2015, February 12-14)	METU
2014	Cosmology and Astroparticle Physics Summer School (2014, September 1-12)	Boğaziçi University
2014	Differential Geometry and Topological Methods in Ph School (2014, August 25-29)	nysics Summer Boğaziçi University
2014	Computational Techniques for Physicists and Astrono School (2014, August 13-22)	omers Summer Boğaziçi University
2014	Winter School on Computer Applications in Accelerate Physics (2014, February 3-10) Gaziose	or and Particle smanpaşa University
2013	Physics for Astronomers (2013, September 2-6)	Boğaziçi University
2013	Cosmology Summer School (2013, August 19-30)	Boğaziçi University
2010	Istanbul University 27th International Physics Congress (2010, September 14-17)	Istanbul University

Presentations

2018	2018 Phenomenology Symposium (Oral Presentation) (2018, 7-9 May) Title: Naturalness and dark matter in supersymmetric $\mathrm{U}(1)_{B-L} \times \mathrm{U}(1)_{R}$ model	≀ no 2018
2018	Winter Nuclear and Particle Physics Conference (Oral Presentation (2018, 15-18 February) Title: Exploring the supersymmetric $\mathrm{U}(1)_{B-L} \times \mathrm{U}(1)_R$ model WNPP	n) C 2018
2015	First Joint METU-IPM Conference on LHC Physics (Poster presents (2015, September 29–October 3) Title: Higgs Anomalies in SUSY B-L Model	ation) P-ECAR
2014	Turkish Physical Society 31th International Physics Congress (Poster presentation - 2014, July 21-24) Title: Revisiting N-symmetric barrier tunneling in Quantum Mechanics	TFD-31
2014	Izmir Solid State Physics Meeting (Poster presentation) (2014, April 11) Title: Revisiting N-symmetric barrier tunneling in Quantum Mechanics	ZTECH

Publications

2019	Relaxing LHC constraints on the \mathbf{W}_R mass Accepted by PRD
2018	Exploring the supersymmetric $\mathrm{U(1)}_{B-L} \times \mathrm{U(1)}_R$ model with dark matter, muon g–2, and Z' mass limits Phys. Rev. D 97, 015012
2017	Muon g–2 in an alternative quasi-Yukawa unification with a less fine- tuned seesaw mechanism Phys. Rev. D 97, 055007
2016	The Higgs boson and right-handed neutrinos in supersymmetric models IZTECH Theses & Dissertations
2016	Mass spectrum and Higgs profile in B–L symmetric SSM $$ Phys. Rev. D 93, 055024 $$

Awards

2016	Concordia international fultion Award of Exceller	1Ce Concordia University
2014	B.Sc. in Physics 3rd Ranked Award	Izmir Institute of Technology

References

1)	Mariana Frank Professor in Physics Department of Physics Concordia University	mariana.frank@concordia.ca
2)	Cem Salih Ün Associate professor in Physics Department of Physics Uludağ University	cemsalihun@uludag.edu.tr
3)	Poulose Poulose Professor in Physics Department of Physics Indian Institute of Technology Guwahati	poulose@iitg.ac.in

4) Durmuş Ali Demir
Professor in Physics
Department of Physics
Izmir Institute of Technology durmus.demir@gmail.com