

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

Phenomenology of particle physics Beyond the Standard Model phenomenology Supersymmetric extensions of the Standard Model Dark matter in BSM LHC Phenomenology Grand unified theories Electroweak symmetry breaking Machine learning algorithms in particle physics

Education

since 2016	Ph.D. candidate in Physics	Concordia University
	Dark matter phenomenology in supersymmetric extention	ons of Standard Model

Under the supervision of Prof. Mariana Frank

2016-2017 **Inter-University Transfer Student** McGill University

> Physics 610 Quantum Field Theory I given by Prof. Simon Caron-Huot Physics 673 Quantum Field Theory II given by Prof. Alexander Maloney

2014-2016 M.Sc. in Physics Izmir Institute of Technology

The Higgs boson and right-handed neutrinos in supersymmetric models

Under the supervision of Prof. Durmus Ali Demir

2009-2014 B.Sc. in Physics (Ranked 3rd) Izmir Institute of Technology

Revisiting N-symmetric barrier tunneling in Quantum Mechanics

Under the supervision of Prof. Ramazan Tuğrul Senger

Experience

Since 2016 **Concordia University** Teaching Assistant (TA)

PHYS 252 Optics given by Dr. Ingo Salzmann (2018 Winter Semester) PHYS 236 Numerical Analysis in Physics given by Dr. Georges Abinader PHYS 224 Introductory Experimental Mechanics (as a lab assistant) PHYS 252 Optics given by Dr. Gabriel Rosenbaum (2017 Winter Semester) PHYS 236 Numerical Analysis in Physics given by Dr. Mario D'Amico

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 in

Supersymmetric Models

Under the supervision of Assoc. Prof. Cem Salih Ün

Koç University, Mechanical Characterization Lab 2012-2012 Internship

Vibration modeling in nanowire resonators with mechanical 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 Accelerat Physics (2014, February 3-10) Gazios	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 $U(1)_{B-L} \times U(1)_R$ model Pheno 2018	
2018	Winter Nuclear and Particle Physics Conference (Oral Presentation) (2018, 15-18 February) Title: Exploring the supersymmetric $U(1)_{B-L} \times U(1)_R$ model WNPPC 2018	
2015	First Joint METU-IPM Conference on LHC Physics (Poster presentation) (2015, September 29–October 3) Title: Higgs Anomalies in SUSY B-L Model	
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 MechanicsIZTECH	

Publications

2018	Exploring the supersymmetric $U(1)_{B-L} \times U(1)_R$ muon g–2, and Z' mass limits	model with dark matter, Phys. Rev. D 97, 015012
2017	Muon g-2 in an alternative quasi-Yukawa unif tuned seesaw mechanism	ication with a less fine- Phys. Rev. D 97, 055007
2016	The Higgs boson and right-handed neutrinos in models	n supersymmetric IZTECH Theses & Dissertations
2016	Mass spectrum and Higgs profile in B-L symm 055024	etric SSM Phys. Rev. D 93,

Awards

2016	Concordia International Tuition Award of Excellence	e Concordia University
2014	B.Sc. in Physics 3rd Ranked Award	mir Institute of Technology

References

references		
1)	Mariana Frank Professor in Physics Department of Physics Concordia University	mariana.frank@concordia.ca
2)	Durmuş Ali Demir Professor in Physics Department of Physics Izmir Institute of Technology	durmus.demir@gmail.com
3)	Cem Salih Ün Associate professor in Physics Department of Physics Uludağ University	cemsalihun@uludag.edu.tr