

# Süleyman Cenk YILDIZ

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## Introduction

I am a young PhD student with 3 years experience in experimental particle physics(CAST Experiment), with focus on the following areas: microMEGAs detectors(hardware maintenance, data acquisition system, upgrades and analysis), vacuum systems, control systems and the mechanical movement system of the CAST magnet.

In CAST Experiment I've enhanced my knowledge of hardware and software and I am confident that my experience and skills will allow me to make meaningful contribution to physics experiments at CERN.

Being very interested in sharing knowledge about CAST and CERN to non-scientists, and possessing advanced communication skills, I was appointed as CAST contact person, and at the same time became an official CERN guide.

I highly value collaborative spirit, and am skilled in working in collaborative environment efficiently.

## Education

2009 - ... , Ph.D. Physics, Bogazici University  
2005 - 2008, M.S. Physics, Bogazici University  
2000 - 2005, B.S. Physics, Koc University

## Research Experience

2009 - ... , *PhD Research, CAST Experiment, CERN*  
Search for Axions with microMEGAs detector in the CERN CAST Experiment  
Supervisor: Prof. Metin Arik

2006 - 2008, *M.S. Thesis, Bogazici University*  
Unitary Matrix Hopf Algebras and Theta-Deformed Fermion Algebra  
Supervisor: Prof. Metin Arik

## Publications

*Search for Sub-eV Mass Solar Axions by the CERN Axion Solar Telescope with  $^3\text{He}$  Buffer Gas*  
The CAST Collaboration, Phys. Rev. Lett. 107, 261302 (2011)

*The new micromegas X-ray detectors in CAST*  
Tomás A et al, X-Ray Spectrometry 40 240-246

*Performance of micromegas detectors in the CAST Experiment*  
S C Yildiz et al 2012 J. Phys.: Conf. Ser. 347 012029

## Teaching Experience

2009 - 2012, *Bogazici University*, Teaching and Research Assistant  
2003 - 2005, *Koc University*, Laboratory Research Assistant  
2003, *Koc University*, Laboratory Assistant for Introductory Physics courses  
2002 - 2003, *Koc University Volunteers*, Volunteer teaching assistant for economically disadvantaged high school students.

## Technical & Computing Skills

Python, C++, Linux, Labview, ROOT, Php, L<sup>A</sup>T<sub>E</sub>X

## Schools Attended

2012 August, Euroscipy - European Conference for Scientists Using Python, Brussels  
2011 January, ISTAPP - International School of Theory and Analysis in Particle Physics, Istanbul  
2010 July, Euroscipy - European Conference for Scientists Using Python, Paris  
2010 January, ISOTDAQ - International School on Trigger and Data Acquisition, Ankara

## Language Skills

Turkish, *Native*

English, *Fluent*

French, *Intermediate*

Spanish, *Intermediate*

## Awards and Honors

2012, Berkol Doğan Award - Bogazici University Physics Department  
2005-2007, TUBITAK Domestic Scholarship for Masters  
2005, Top Ranking Student Award - Koc University Physics Department  
2000-2005, Vehbi Koc Scholarship - Koc University

## Personal

Born on March 23, 1983.

Citizen of Republic of Turkey.

## Other

2011 - ... *CAST Experiment, CERN*, Contactperson  
2011 - ... *CERN*, Official CERN Guide

## References

References are available upon request