

# CIRRUCULUM VITAE

**Sina Türeli**

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## EDUCATION

2011-2015 Ph.D in Mathematical Physics, International School for Advanced Studies (29/30)  
2009-2011 M.Sc in Physics, Boğaziçi University (3.88/4.00 GPA)  
2005-2009 B.S Genetics and Molecular Biology, Boğaziçi University (transfer) (3.08/4.00 GPA)  
2004-2005 B.S Civil Engineering, Istanbul Technical University (3.40/4.00 GPA)  
1997-2004 High School, Uskudar American College

## PH.D THESIS

**Topic:** Integrability properties of continuous invariant tangent subbundles that arise in dynamical systems

**Advisor:** Prof. Stefano Luzzatto

**Coadvisor:** Prof. Andrei Agrachev

## RESEARCH INTERESTS

Dynamical systems, Differential Geometry, Applications in Natural Sciences

## PUBLICATIONS

S. Luzzatto, S. Türeli, K.M. War. "*A Frobenius Theorem for Continuous Distributions in Dimension Three*" (submitted, preprint available)

S. Luzzatto, S. Türeli, K.M. War. "*Integrability of dominated decompositions on three dimensional manifolds*" (submitted, preprint available)

S. Luzzatto, S. Türeli, K.M. War. "*Integrability of  $C^1$  invariant splittings*" (submitted, preprint available)

S. Türeli, K.M. War "On the Upper Bound for Sub-Riemmanian Distance of Codimension 1 Hölder Distributions"(in preparation)

S. Türeli, T. Varnali "A PM6 study of Rhodop. Acid. Light harvesting center II B800 bacteriochlorophylls in representative protein environment" J. Mol. Model 2011 vol.17 iss.6 pp1273-1282

S. Tureli, F. Öztürk “Open Lecture Notes in Morse Theory” (in Turkish)  
<http://www.math.boun.edu.tr/instructors/ozturk/acikders/morse.htm>

## TEACHING ASSISTANT EXPERIENCE

- During Masters:** PHYS 325 Mathematical Methods in Physics, PHYS201 Electromagnetism, Classical Mechanics Problem Sessions and Thermodynamics lab sessions
- During Ph.D:** Dynamical Systems and Ordinary Differential Equations problem sessions

## CONFERENCES ATTENDED

- 1- ICTP-ESF School and Conference in Dynamical Systems 21.05.2012-08.06.2012 (participant)
- 2- Large deviations and thermodynamical formalism - mini courses and conference 11.03|2013-21.03.2013 | EPFL (participant)
- 3- International Conference Beyond Uniform Hyperbolicity 27.05.2013 - 07.06.2013 | Banach Center (participant)
- 4- Chaos at Tor Vergata 02.04.2014-03.04.2014 | Roma Tor Vergata. (speaker)
- 5- ICTP-NLAGA School in Dynamical Systems and Ergodic Theory 04.06.2014-04.14.2014 (participant and speaker)

## TALKS

- 1- Persistent Homology & Viral Evolution (ICTP, 2013)
- 2- Basic Notions of Ergodic Theory (ICTP, 2014)

## GRANTS

BREUDS Grant for the period 12.10.2014-20.11.2014 to visit IMPA

## COMPUTER KNOWLEDGE

Experienced in scientific programming in C,C++, Matlab, Perl, basic knowledge of MPI and OpenMP parallel programming

## REFERENCES

- Prof. Stefano Luzzatto**, Professor of Mathematics at International Center for Theoretical Physics (ICTP) (luzzatto@ictp.it)
- Prof. Marcelo Viana**, Professor of Mathematics at Institute for Pure and Applied Mathematics (IMPA) (marceloviana000@gmail.com)
- Prof. Andrei Agrachev**, Professor of Mathematics at International School for Advanced Studies (SISSA) (agrachevaa@gmail.com)