

Masoud Hoore

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PERSONAL INFORMATION

PhD Candidate,
Institute of Complex Systems and Institute for Advanced Simulation,
Forschungszentrum Jülich, 52425 Jülich, Germany
Date of Birth: 12 Dec 1988
E-mail: m.hoore@fz-juelich.de
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EDUCATION

Doctor of Philosophy, Physics, Complex Systems and Soft Matter
Researcher at Complex and Biological Fluids Group,
Forschungszentrum Jülich, 52425 Jülich, Germany
May 2015 - May 2018
PhD Degree would be honored by University of Cologne, Cologne, Germany

Master of Science, Mechanical Engineering, Applied Mechanics
Research Assistant at Computational Mechanics Laboratory,
Sharif University of Technology, Tehran, Iran
September 2012 - August 2014
Current GPA: 16.81/20 (**3.86/4**) (21 semester credit hours)

Bachelor of Science, Mechanical Engineering
Sharif University of Technology, Tehran, Iran
September 2007- August 2012
Mechanical Engineering GPA: 17.60/20 (3.82/4) (151 semester credit hours)

Bachelor of Science, Physics (Dual Major)
Sharif University of Technology, Tehran, Iran
February 2009- August 2012
Physics GPA: 17.86/20 (3.85/4) (108 semester credit hours)

Overall GPA: 17.63/20 (3.80/4) (210 semester credit hours)

High School Diploma, Physics & Mathematics,
Allameh Helli High School (**National Organization for Development of Exceptional Talents (NODET)**), Tehran, Iran
September 2003- September 2007
GPA: 19.14/20

PUBLICATIONS

M. Hoore and S. Moghimi-Araghi, *Critical behavior of a small-world sandpile model*, J Phys A Math Theor **46**(19) (2013)

M.H. Kahrobaiyan, M. Asghari, M. Hoore and M.T. Ahmadian, *Nonlinear size-dependent forced vibrational behavior of microbeams based on a non-classical continuum theory*, J Vib Control **18**(5) (2011)

HONORS & AWARDS

Admission offer for PhD, Center for Biophysics and Quantitative Biology,
University of Illinois at Urbana-Champaign, IL, USA
Research Assistantship Fund
Fall Semester 2014 and 2015

Admission offer for PhD, Engineering Science and Mechanics,
Virginia Tech, VA, USA
Teaching Assistantship Fund
Fall Semester 2014

Ranked 208th among more than 300,000 participants in National University Exam, Iran, 2007

Merit-based Admission Offer (exempted from taking the national entrance exam) to the M.Sc. Program as an Exceptionally Talented Undergraduate Student at Department of Mechanical Engineering, Sharif University of Technology, Tehran, Iran, 2012

RESEARCH INTERESTS

Multi-Body Dynamics, Molecular Dynamics,
Computational Physics, Neural Networks,
Analytical Dynamics and Control

**RESEARCH
EXPERIENCE**

PhD Thesis, Physics, Modeling the flow behavior of blood cells and von Willebrand factor in primary hemostasis,
Forschungszentrum Jülich, 52425 Jülich, Germany from May 2015
Supervised by *Dr. Dmitry A. Fedosov & Prof. Dr. Gerhard Gompper*

MSc Thesis, Mechanical Engineering, Protein Coated Vesicles in Shear Flow, Sharif University of Technology, Tehran, Iran from September 2012
Supervised by *Prof. Mir Abbas Jalali*

BSc Thesis, Physics, Self-Organized Criticality of small-world sandpile model, Sharif University of Technology, Tehran, Iran July 2011 - January 2013
Supervised by *Prof. Saman Moghimi-Araghi*

BSc Thesis, Mechanical Engineering, Beam models based on the modified couple stress theory, Sharif University of Technology, Tehran, Iran September 2010 - May 2011
Supervised by *Prof. Mohsen Asghari*

**TEACHING
EXPERIENCE**

Teaching Assistant of Physics 1,
Sharif University of Technology, Tehran, Iran Fall 2014

Teaching Assistant of Physics 1,
Sharif University of Technology, Tehran, Iran Spring 2013

Teaching Assistant of Computer Programming: Pascal,
Sharif University of Technology, Tehran, Iran Spring 2008

**COMPUTER
SKILLS**

Advanced in: C++, MATLAB (Mathworks & Simulink), LAMMPS, L^AT_EX, POV-Ray

Microsoft Office skills: Word, Excel, Power Point, Visio, Outlook

Familiar with: MPI, OpenMP, Python, Tecplot, VMD, CATIA, SolidWorks, AutoCAD

LANGUAGES

English: Fluent

Toefl iBT: 101/120, R: 27/30, L: 25/30, S: 22/30, W: 27/30 6 December 2013

GRE General: 1200/1600, V: 410/800, **Q: 790/800**, AW: 2.5/6 12 February 2011

French: Intermediate (CEFR Level: B1)

DELF B1 Certificate

August 2010

German: Elementary (CEFR Level: A2)

Persian: Native

Azerbaijani: Familiar

HOBBIES

Reading Books (Psychology, History and Literature)

Spending time with Family in

Walking, Mountain Climbing, Picnic

Restaurant, Movies, Theatre, Concert and Opera

REFERENCES

Dmitry A. Fedosov, *Group Leader*

Institute of Complex Systems and Institute for Advanced Simulation,

Forschungszentrum Jülich, 52425 Jülich, Germany

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Gerhard Gompper, *Professor*

Institute of Complex Systems and Institute for Advanced Simulation,

Forschungszentrum Jülich, 52425 Jülich, Germany

Email: g.gompper@fz-juelich.de

Saman Moghimi-Araghi, *Associate Professor*

Sharif University of Technology, Department of Physics

Email: samanimi@sharif.edu

Mohsen Asghari, *Associate Professor*

Sharif University of Technology, Department of Mechanical Engineering

Email: asghari@sharif.edu

Mir Abbas Jalali, *Professor*

Sharif University of Technology, Department of Mechanical Engineering

Email: mjalali@sharif.edu