# VITAE – HEKTOR KASHURI

## I. PERSONAL

Assistant Teaching Professor, Department of Physics, Worcester Polytechnic Institute, 01609, USA
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### 1. EDUCATION

Ph.D. Physics; *Anisotropy of human muscle via non-invasive impedance measurements. Frequency dependence of the impedance changes during isometric contractions*, Northeastern University, Boston, MA, April 2008.
ICTP Diploma Programme (Condensed Matter Physics); *Numerical study of three-spin interaction model on a triangular lattice*, Trieste, Italy, August 2000.
B.Sc. Physics; University of Tirana, Tirana Albania, July 1997.

### 2. CAREER

2010- now *Assistant Teaching Professor*, Department of Physics, Worcester Polytechnic Institute (WPI).
2008- 2010 *Adjunct Teaching Professor*, Department of Physics, WPI.
2008- 2014 *Postdoctoral Researcher*, Department of Physics, WPI.
2003- 2008 *Research Assistant*, Department of Physics, Northeastern University, Boston, MA.
2001- 2003 *Teaching Assistant*, Department of Physics, Northeastern University, Boston, MA.
2000- 2001 *Lecturer*, Department of Physics, Polytechnic University of Tirana, Tirana, Albania.
1997- 1999 *Lecturer*, Department of Physics, University of Tirana, Tirana, Albania.

## II. TEACHING

### 3. TEACHING SUMMARY (WPI)

1. Courses Taught: Mechanics, Electricity and Magnetism, Oscillations and Waves, Modern Physics and Intermediate Mechanics I
2. Projects: Interactive Qualifying Project: **6** projects with 24 students.
Major Qualifying Projects :**1** project, 1 student

## III. SCHOLARSHIP

### 4. PUBLICATIONS

1. "Frequency Dependence of Muscle Impedance During Isometric Contractions" H.Kashuri, C.Shiffman and R.Aaron 13th International Conference on Electrical Bioimpedance ICEBI 07, Graz, Austria.
2. "Electrical Impedance Myography at High Frequency and a New Equivalent Circuit Model" H.Kashuri, C.Shiffman, and R.Aaron 13th International Conference on Electrical Bioimpedance ICEBI 07, Graz, Austria.
3. "Measuring the imaginary part of the permittivity using calorimetry", H. Kashuri, K. Sigdel, K. Kashuri, and G.S. Iannacchione, Bull. Am. Phys. Soc. **56** (2), W21.00014 (2010).

4. "Particle distribution and dynamics in complex fluid suspension studied by an image-analysis lightscattering technique", S. Algarni, H. Kashuri, and G.S. Iannacchione, Bull. Am. Phys. Soc. **56** (2), W21.00001 (2010).
5. "The effect of phosphate buffered saline (1x PBS) on induced thermal unfolding and low frequency dielectric spectra of lysozyme", K. Kashuri, H. Kashuri, and G.S. Iannachione, Bull. Am. Phys. Soc. 56 (2), P39.00004 (2010).
6. "Heat Capacity Measurements by Simultaneous Relaxation and AC-Calorimetry" H. Kashuri, K. Kashuri and G.S. Iannachione, Bull. Am. Phys. Soc. 57 (1), Y1.00008 (2012).
7. "Calorimetric and dielectric study of negative dielectric anisotropy alkoxy-phenyl-benzoate liquid crystal" P.Kalakaonda, H.Kashuri, K.Kashuri, G S Iannacchione, Indian Journal of Pure & Applied Physics Vol 52, pp.689-698 (2014).

### 5. PRESENTATIONS

**1.** "*Multi-frequency AC-modulated calorimetry*" H.Kashuri , Klaida Kashuri, Germano Iannachione, WPI Graduate,Poster presentation (Worcester, MA 2009); Bull. GRAD WPI 2009.
**2.** "*Measuring the Imaginary Part of the Dielectric Constant Using Calorimetry*" H.Kashuri , Krishna Sigdel, Klaida Kashuri, Germano Iannachione WPI Graduate Poster presentation *(Worcester, MA 2010);* Bull. GRAD WPI 2010.
**3.** "*Multi-frequency AC-modulated calorimetry and Measuring the Imaginary Part of the Permittivity Using Calorimetry*" Physics Colloquium,WPI Physics Dept. (2010)
**4.** "*Measuring the Imaginary Part of the Permittivity Using Calorimetry*" Hektor Kashuri,Krishna Sigdel,Klaida Kashuri,Germano S. Iannacchione, APS March Meeting 2011.
**5.** "*The Effect of Phosphate Buffered Saline (1x PBS) on Induced Thermal Unfolding and Low Frequency Dielectric Spectra of Lysozyme*", Klaida Kashuri, Hektor Kashuri, Germano Iannacchione, APS March Meeting 2011.
**6.** "*Particle distribution and dynamics in a complex fluid suspension studied by an image-analysis light-scattering technique*" Saad Algarni, H. Kashuri, Germano Iannacchione, APS March Meeting 2011.

## IV. PROFESSIONAL DEVELOPMENTS, SERVICE, AWARDS

### 6. PROFESSIONAL DEVELOPMENTS

1. "*KEEN ICE Workshop"*, WPI , August 15-17, 2017.
2. "*Physics and Astronomy New Faculty Workshop*", American Center for Physics, College Park, Maryland, November 2-5 , 2017.
3. "*Summer Institute for Innovative Teaching*" March 19- April 20, 2018
4. "*Teaching in Active Learning Classrooms Workshop*" August 22, 2018.
5. "*KEEN National Conference*", Dallas, January 3-5, 2019.
6. "*Global Projects Program Advisor Retreat*" May 6, 2019
7. " *Building EML Foundations in STEM* ", Online KEEN National Conference, June 15-19, 2020.
8. "*The Future of Remote Learning in Physics*", PICUP Spring Webinar Series: Online May 18,2021

## 7. PROFESSIONAL MEMBERSHIPS

American Association of Physics Teachers 2020 - present.

## 8. WPI COMMITTEE

Physics Department Undergraduate Curriculum Committee (PDUCC) 2014-2016, 2017-2018, 2020- present

## 9. AWARDS

"*Excellence in Teaching General Physics*" Awarded by the WPI Chapter of the Society of Physics Students (2015)

## 10. OTHER

Computer Skills
Visual Python, MATLAB, Visual Basic, Visual C#, LabVIEW, C/C++.

Languages
Fluent in Albanian (native), English and Italian. Fair knowledge of Greek and Spanish.