

Curriculum Vitae



Firstname / Surname

Dr. László Tóth

Address

H-4032, Debrecen, Egyetem tér 1., Hungary

Phone

+36 52-512900 / 62261

Fax

+36 52-416857

E-mail

tothla@tigris.unideb.hu

Work experiences

1.

Dates

02 September 1991 - 31 July 1996

Name and address of employer

[Institute of Nuclear Research of HAS](#), H-4001 Debrecen, POB. 51., Hungary

Occupation or position held

Researcher, assistant lecturer / fellow later PhD student

Main activities and responsibilities

- Investigation of Post Collision Interactions in ion-atom collisions.
- Investigation of the structure of inner atomic shells as well as
- the coherence and electron correlation effects by electron spectroscopic study of ion-atom collision induced Auger electrons.
- Developing instruments and measurements systems as well as data processing software for experiments of atomic physics.
- Demonstrations and development of illustrative experiments for the subject of “Experimental Physics” at the [Department of Experimental Physics](#) of [University of Debrecen](#).

2.

Dates

01 August 1996 - 31 March 2004

Name and address of employer

[Konkoly Observatory of the HAS](#), [Heliophysical Observatory](#) 4010 Debrecen, Pf. 30.

Occupation or position held

Researcher, visiting lecturer/ research fellow

Main activities and responsibilities

- Investigation of the subsurface behavior of solar bipolar active regions.
- Study of the effect of solar particle radiation activity on the terrestrial weather (cyclone activity, balance of planetary wave).
- Building astronomical instruments as well as developing data and image processing software.
- Participating in the regular daily photosphere observation service.
- History of astronomy.
- Teaching “Introduction to Astronomy” for students of physics at the [Institute of Theoretical Physics](#) of [University of Debrecen](#).

3.

Dates

08 May 2004 – 31 March 2008

Name and address of employer

Employer: [Core Research for Evolutional Science and Technology](#) program at the [Japan Science and Technology Agency](#)

Workplace: [Surface and Materials Science Laboratory](#) at the [Nara Institute of Science and Technology](#), 8916-5 Takayama, Ikoma, NARA 630-0192 JAPAN

Occupation or position held

Researcher

Main activities and responsibilities	<ul style="list-style-type: none"> • We have designed and built a new type 1π sr Wide Acceptance Angle spherical aberration corrected Electrostatic Lens (WAAEL) and • applied that as objective lens in a Display-type Ellipsoidal Mesh Analyzer (DELMA) for electron energy and two dimensional angular distribution measurements. <p>It is a great leap forward compared to the other available largest acceptance angles (0.07π sr) and opens way towards new application areas.</p> <p>Our instrument is able to be used for</p> <ul style="list-style-type: none"> • simultaneous angular and energy distribution measurements, • electron spectroscopy and spectrography • diffraction and holographic measurements furthermore, • due to the extremely large acceptance angle mode it can be used as Stereo-PEEM to obtain three-dimensional atomic and electronic structures of microscopic-materials. <p>These properties make it useful in several fields from the atomic and solid state physics through geology to biological applications. (Feyn. 64)</p>
4.	
Dates	01 September 2008 -
Name and address of employer	University of Debrecen, Faculty of Informatics, Department of Informatics Systems and Networks , 4032, Debrecen, Egyetem tér 1.
Occupation or position held	Senior lecturer
Main activities and responsibilities	<ul style="list-style-type: none"> • Research / development <ul style="list-style-type: none"> • Participation in the Stereo-PEEM program (NAIST, Spring-8) • Investigation of the methods of Ultrasound-CT development. • Microcontroller based weather prediction network. • Electronic version of the GPHR solar database. • Education (for system engineers, Hun. / English) <ul style="list-style-type: none"> • FPGA and microcontroller based knowledges • Verilog, Assembly, LabView • Programming Laboratory • Individual Laboratory Practice • Telecommunication Networks • Thesis work, Student Scientific Association, PhD teaching / supervising.
Education, degree	
1.	
Title of qualification awarded	MSc in Physics (234/1991)
Name and type of organisation providing education and training	University of Debrecen, Faculty of Science and Technology , 4010 Debrecen, Pf. 18.
2.	
Title of qualification awarded	PhD in Physics (140/2008)
Name and type of organisation providing education and training	University of Debrecen, Faculty of Science and Technology , 4010 Debrecen, Pf. 18.
Prizes	
	<ul style="list-style-type: none"> • University of Debrecen the „Price of the Faculty of Informatics”, Debrecen, 2011. 06.26.
Personal skills	
Language exam	English (intermediate level, A/1993/0039366, C/2004/410524)
Additional information	Further information and list of publications