

Curriculum vitae

PERSONAL INFORMATION

Boglárka Erdős



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EDUCATION AND TRAINING

2018–Present

PhD Student

Budapest University of Technology and Economics, Budapest (Hungary)

Topic: Contaminations and selectivity of silicon charged particle detectors for space weather and space dosimetry measurements

2016–2018

MSc in Physics

Budapest University of Technology and Economics, Budapest (Hungary)

Department of Nuclear Techniques

Thesis: Investigation of runaway electron generation in tokamak disruptions

2012–2016

BSc in Energy Engineering

Budapest University of Technology and Economics, Budapest (Hungary)

Department of Nuclear Energy

Thesis: Investigation of runaway electron generation in tokamak disruptions

WORK EXPERIENCE

2016–Present

Teaching Assistant at Department of Nuclear Techniques

Budapest University of Technology and Economics, Budapest, (Hungary)

2015–2018

Participation in EUROfusion research projects

WP-MST1-AUG15-1.3.5: (ASDEX Upgrade, IPP Garching)

WP-MST1 2017 HLT8 (ASDEX Upgrade, IPP Garching, Swiss Plasma Center, EPFL)

PERSONAL SKILLS

Mother tongue(s)

Hungarian

Foreign language(s)

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---------|---|---------|--------------------|-------------------|---------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | C2 | C2 | B2 | B2 | C1 |
| | Intermediate level, complex language exam, B2 Spoken English Test for Business, B1 | | | | |
| German | B1 | B1 | A2 | A2 | A2 |
| | Intermediate level, complex language exam, B2 | | | | |

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

ADDITIONAL INFORMATION

- Publications**
- G.I. Pokol, M. Aradi, B. Erdos, et. al.:** Development of the runaway electronmodelling capabilities of the European Transport Simulator
44th EPS Conference on Plasma Physics, P2.178
- G. Papp, (...), B. Erdos, et. al.:** Runaway electron generation and mitigation on the European medium sized tokamaks ASDEX Upgrade and TCV
Proceedings of the 26rd IAEA Fusion Energy Conference, number OV/P-12
- H. Meyer, (...), B. Erdos et. al.:** Overview of progress in European Medium Sized Tokamaks towards an integrated plasma-edge/wall solution
Nuclear Fusion, 57(10):102014, 2017
- G.I. Pokol, (...), B. Erdős et al:** Application limits of runaway electron modeling based on analytical formulas of generation and loss rates
42nd EPS Conference on Plasma Physics, ECA 39E P5.169
- Conferences**
- 2017: **XVIth Symposium of the Hungarian Nuclear Society**, Budapest, Hungary
Talk: Dependence of runaway electron generation mechanism on disruption parameters (in Hungarian)
- 2017: **5th Runaway Electron Meeting**, Liblice, Czech Republic
Talk: 1D runaway electron modelling with GO for ASDEX Upgrade and ETS (in English)
- 2017: **8th Hungarian Plasma Physics and Fusion Technology Workshop**, Esztergom, Hungary
Talk: Self-consistent runaway electron modelling (in English)
- 2015: **7th Hungarian Plasma Physics and Fusion Technology Workshop**, Tengelic, Hungary
Poster: Numerical analysis of runaway electron dynamics (in English)
- 2016: **4th Runaway Electron Modelling Meeting**, Pertuis, France
- 2015: **3rd Runaway Electron Modelling Meeting**, Pertuis, France
- Honours and awards**
- 2017: Outstanding Student of the Faculty
- 2017: National Scientific Students' Associations Conference: Special Award
- 2016: Scientific Student Conference, BME TTK: 3RD prize
- 2015: Scientific Student Conference, BME TTK: 2ND prize
- Skills**
- Programming skills: **MATLAB, Python**
 - Advanced knowledge of MS Office softwares and **LaTeX**
 - User level knowledge: **Inventor, AutoCAD, Adobe Photoshop, Adobe InDesign, GaBi** (Life Cycle Assessment Software), **Unix operating systems, Content management systems, Version Control Systems**
 - Driving licence: Category B
- Memberships**
- 2015-Present: Hungarian Nuclear Society - Fusion Professional Group
- 2014-Present: BME NTI Fusion Plasma Physics Research Group
- 2014-2017: Institute of Electrical and Electronics Engineers, BUTE IAS/PES Joint SB Chapter
- 2012-2017: Student Association of Energy