



Bujor Bogdan Grecu

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Date of birth: 13/02/1975 **Nationality**: Romanian

WORK EXPERIENCE

[01/06/2000 – Current]

Geophysicist/Seismologist

National Institute for Earth Physics www.infp.ro

Address: 12, Calugareni, 077125, Magurele, Romania

- Processing of seismological data of local, regional, and teleseismic earthquakes
- Contributions to seismic monitoring of Romanian territory and studies for the optimization of the Romanian Seismic Network
- Studies for estimation of site effects
- Seismic microzonation
- Analysis of surface waves for determination of local and regional velocity structure
- Ambient noise analysis for estimation of site effects and of velocity structure through crosscorrelation techniques
- Analysis of the characteristics of the ambient seismic noise
- Near-surface geophysical investigations
- Seismic wave attenuation
- Seismic tomography

EDUCATION AND TRAINING

[03/2009]

PhD diploma

University of Bucharest, Faculty of Physics

City: Bucharest

Country: Romania

Seismology - site effects

[01/10/1999 – 30/06/2000]

MSc diploma

University of Bucharest, Faculty of Geology and Geophysics

City: Bucharest

Country: Romania

Ambient Engineering Geology

[01/10/1994 – 30/06/1999]

BSc diploma

University of Bucharest, Faculty of Geology and Geophysics

City: Bucharest

Country: Romania

Geophysics

LANGUAGE SKILLS

Mother tongue(s): Romanian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION C1

French

LISTENING B1 READING B1 WRITING A2

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Windows | Linux | Microsoft Office | Python | Shell scripting | SeisImager

NETWORKS AND MEMBERSHIPS

Memberships

Seismological Society of America

ORGANISATIONAL SKILLS

Organisational skills

Experience in project or team management gained by coordinating 11 national projects (1 CERES, 1 MENER, 1 Human Resources - TD, 1 Human Resources - PD, 1 Human Resources - TE, 4 themes - NUCLEU, 1 Demonstrative Experimental Project - PED, 1 Competitiveness Operational Programme - POC).

Team spirit acquired through participation in more than 30 national and international projects in which the National Institute for Earth Physics was involved as coordinator or partner.

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Good communication skills gained through participation in national and international projects and conferences.

JOB-RELATED SKILLS

Job-related skills

Experience in working with geophysical equipment, seismological data processing and data quality control

TRAINING COURSES AND WORKSHOPS

Training courses and workshops

- "International Training Course on Seismology, Seismic Data Analysis, Hazard Assessment and Risk Mitigation", Potsdam, 20.07.2002 – 25.08.02, Germany;
- "Seventh Workshop on Non-linear Dynamics and Earthquake Prediction" în cadrul The Abdus Salam International Centre for Theoretical Physics, 28.09.2003 – 12.10.2003, Trieste, Italy;
- "Using Ambient Vibration Array Techniques for Site Characterization", 20.04.2006 – 26.04.2006, Potsdam, Germany
- "The Conduct of Seismic Hazard Analyses for Critical Facilities", Trieste, Italy, 15.05.2006 – 19.05.2006
- "9th Workshop on Three-Dimensional Modelling of Seismic Waves Generation, Propagation and their Inversion – ICTP, Trieste, Italy, 22.09.2008-04.10.2008;

WORKING STAGES

Working stages

- University of Karlsruhe, Germany, in the framework of Romanian-German cooperation CRC 461 „Romanian Earthquakes: A challenge for Goesciences and Civil Engineering", September 2001 (1 week);
- Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, in the framework of NATO SfP 972266, December 2002 (3 weeks);
- University of Karlsruhe, Germany, in the framework of Romanian-German cooperation CRC 461 „Romanian Earthquakes: A challenge for Goesciences and Civil Engineering", November 2003 (3 week);
- University of Karlsruhe, Germany, in the framework of Romanian-German cooperation CRC 461 „Romanian Earthquakes: A challenge for Goesciences and Civil Engineering", February - April 2004;
- University of Trieste, Department of Earth Sciences, Trieste, Italy in the framework of the Romanian- Italian bilateral cooperation, Theme no. 31 „Seismic risk management for the city of Bucharest" (1 month) ;
- Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, in the framework of CEI-Earth Sciences Committee project "GEODYNAMICAL MODEL OF CENTRAL EUROPE FOR SAFE DEVELOPMENT OF GROUND TRANSPORTATION SYSTEMS" (10 months);
- National Observatory of Athens (NOA), Greece, in the framework of NATO SfP 981881 project, March 2009 (2 weeks).

SELECTED PUBLICATIONS

Selected publications

- Tiganescu, A., Craifaleanu, I. G., Aldea, A., **Greco, B.**, Vacareanu, R., Toma-Danila, D., ... & Dragomir, C. S. (2022). Evolution, Recent Progress and Perspectives of the Seismic Monitoring of Building Structures in Romania. *Frontiers in Earth Science*, 10, 819153.
- Tiganescu, A., **Greco, B.**, Neagoe, C., Toma-Danila, D., Tataru, D., Ionescu, C., & Balan, S. F. (2022). PREVENT—An integrated multi-sensor system for seismic monitoring of civil structures. *Rom. Rep. Phys*, 74, 706.
- **Greco, B.**, Borleanu, F., Tiganescu, A., Poiata, N., Dinescu, R., & Tataru, D. (2021). The effect of 2020 COVID-19 lockdown measures on seismic noise recorded in Romania. *Solid Earth Discussions*, 2021, 1-30.
- Mărmureanu, A., Ionescu, C., **Greco, B.**, Toma-Danila, D., Tiganescu, A., Neagoe, C., ... & Ilieș, I. (2021). From national to transnational seismic monitoring products and services in the Republic of Bulgaria, Republic of Moldova, Romania, and Ukraine. *Seismological Society of America*, 92(3), 1685-1703.
- Lecocq, T., Hicks, S. P., Van Noten, K., Van Wijk, K., Koelemeijer, P., De Plaen, R. S., ..., **Greco, B.**, ... & Xiao, H. (2020). Global quieting of high-frequency seismic noise due to COVID-19 pandemic lockdown measures. *Science*, 369(6509), 1338-1343.
- **Greco, B.**, Neagoe, C., Tataru, D., Borleanu, F., & Zaharia, B. (2018). Analysis of seismic noise in the Romanian-Bulgarian cross-border region. *Journal of Seismology*, 22(5), 1275-1292.
- **Greco, B.**, Zaharia, B., Diaconescu, M., Bala, A., Nastase, E., Constantinescu, E., & Tataru, D. (2018). Characterization of site conditions for selected seismic stations in eastern part of Romania. *Acta Geophysica*, 66(2), 153-165.
- Ren, Y; **Greco, B.**; Stuart, G; Houseman, G; Hegedus, E; Group Author(s): South Carpathian Project Working, Crustal structure of the Carpathian-Pannonian region from ambient noise tomography, *Geophysical Journal International* Volume: 195 Issue: 2 Pages: 1351-1369, 2013
- **Greco, B.**; Neagoe, C; Tataru, D., Seismic Noise Characteristics at the Romanian Broadband Seismic Network, *JOURNAL OF EARTHQUAKE ENGINEERING* Volume: 16 Issue: 5 Pages: 644-661, 2012
- D'Alessandro, A; Danet, A; **Greco, B.**, Location Performance and Detection Magnitude Threshold of the Romanian National Seismic Network, *Pure and Applied Geophysics* Volume: 169 Issue: 12 Pages: 2149-2164, 2012

- **Grecu, B.**; Raileanu, V; Bala, A; Tataru, D., Estimation of site effects in the Eastern part of Romania on the basis of H/V ratios of S and coda waves generated by Vrancea intermediate-depth earthquakes, *Romanian Journal of Physics* Volume: 56 Issue: 3-4 Pages: 563-577, 2011
- Ganas, A., **Grecu, B.**, Batsi, E., & Radulian, M. (2010). Vrancea slab earthquakes triggered by static stress transfer. *Natural Hazards and Earth System Sciences*, 10(12), 2565.
- Sokolov, V., Bonjer, K. P., Wenzel, F., **Grecu, B.**, & Radulian, M. (2008). Ground-motion prediction equations for the intermediate depth Vrancea (Romania) earthquakes. *Bulletin of Earthquake Engineering*, 6(3), 367-388.