
Education

- Oct 2017 – Present **Doctor of Science in Seismology**, *Institut de Physique du Globe de Strasbourg*,
Thesis title: Monitoring of deep reservoirs with ambient seismic noise,
Supervisor: Jerome Vergne, PhD. IPGS.
Keywords: Ambient Seismic Noise Interferometry, Python, Mass Processing, Data Science
- Oct 2015 – Jul 2017 **Master of Science in Geophysics**, *University of Silesia in Katowice*,
Thesis title: Seismic noise analysis for purpose of Active Layer of Permafrost investigations in a region of Polish Polar Station in Hornsund, Svalbard,
Supervisor: Dorota Olszewska, PhD. Institute of Geophysics, PAS.
Keywords: HVSR, Local effects, Python, ObsPy, Matlab, Git.
- Oct 2012 – Jun 2015 **Bachelor of Science in Geophysics**, *University of Silesia in Katowice*,
Thesis title: Seismic network optimization in the LGCD area with use of simulated annealing algorithm,
Supervisor: Maciej Mendecki, PhD. University of Silesia.
Keywords: Matlab, Monte Carlo Sampling, D-optimum solution.

Experience

- April 2017 – Sep 2017 **Junior Java Programmer**, *ACC Cyfronet AGH*.
Responsibilities Programming in Java with use of Spring, MongoDB, GWT, Angular. Programming in Python with use of ObsPy, Numpy, Scipy.
- May 2016 – Nov 2016 **Intern**, *Institute of Geophysics, Polish Academy of Sciences*.
Internship coordinator Dorota Olszewska, PhD.
Responsibilities Creating Python scripts to process seismic signal to apply HVSR method; Creating and maintaining SQLite database of PGA parameters for LGCD region; Creating Python scripts for solving different problems and tasks in the Institute
- Oct 2015 – Aug 2016 **Organizing Committee Member**.
7th International Geosciences Student Conference in Katowice, 11th -14th July 2016
Responsibilities Organization of worldwide scientific conference for 150 students and young professionals as a core member of organizing committee
- Jun 2015 – Jul 2015 **Intern**, *Institute of Geophysics, Polish Academy of Sciences*.
Internship coordinator Dorota Olszewska, PhD.
Responsibilities Seismic signal processing in Matlab; HVSR method implementation in Matlab
- Jan 2015 – Present **Member of a scientific project**, *University of Silesia in Katowice*.
Member of a project *Permafrost interaction as an environmental continuum between glacial and periglacial domain in Tarfala (Scandinavia) and Hornsund area, Spitsbergen* under leadership of dr hab. Wojciech Dobiński, University of Silesia, Department of Earth Science.
Participant of the Scientific Expedition to the Spitsbergen in Aug - Sep 2015
Responsibilities Preparing and conducting Electrical Resistivity Tomography surveys; Processing and interpretation of acquired data; Publishing results
- Oct 2014 – May 2015 **Organizing Committee Leader**.
VIII Student Scientific Workshops Geosfera 2015 in Żory, 23-26th April 2015
Responsibilities Organization of scientific conference for 130 students as leader of organizing committee

Languages

Polish Native
English B2/C1
French A1
Russian A1

Certificates: English in Geophysics – Level C1

Programming

Python 2 years of experience. *Obspy, Scipy, Numpy, Matplotlib, Pandas, SQLAlchemy*
Java About 1 year of experience. *Spring, Springboot, GWT*
Matlab About 1 year of experience.
R Basics
Utilities Git, Latex, Bash, MongoDB

Computer Skills

- o ArcGis (Certified with ECDL GIS)
- o Surfer
- o Res2Dinv
- o Adobe Illustrator
- o MS Office

Voluntary Services

Jan 2016 Biebrza National Park, Poland. Focused mostly on creating and preparing maps for publishing using ArcGis software.

Grants and Awards

- 2016 — Best Student Poster Award of Session 18 during 35th General Meeting of European Seismological Commission, Trieste 2016
— Travel grant to participate in Advanced School on Seismology Beyond Textbooks & 35th General Meeting of European Seismological Commission, Trieste, 2016
- 2015 — Travel Grant to participate in Society of Exploration Geophysicists & Chevron Student Leadership Symposium, New Orleans, 2015.
- 2012 — Winner of the XVI Contest of Technical Knowledge 2012, organized by University of Silesia in Katowice(XVI Konkurs Wiedzy Technicznej).

Student Scientific Associations

Oct 2012 – Jul 2017 Student Science Association of Geophysicists PREM *Positions: Vicepresident, Member*
Jan 2014 – Jul 2017 University of Silesia Student Chapter of the EAGE *Positions: President*
Jan 2015 – Jul 2017 University of Silesia Student Chapter of the SEG *Positions: President, Vicepresident*

Personal interests

- o Hiking, running, swimming, mountaineering, polar regions
- o Technology, IT, programming
- o Seismology, geophysics, statistics, data science