

CURRICULUM VITAE

Katarzyna Anna Ślęzak

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Date of birth: 5 January 1985

Nationality: Polish



Education and Work

- 2017 - 2018: Junior Researcher (**postdoc**) - Instituto Volcanológico de Canarias (INVOLCAN), Tenerife, Canary Islands, Spain
- 2015 - 2017: Research Assistant – Institute of Geophysics, Polish Academy of Sciences, Warsaw, Poland
- 2010 - 2015: **Ph.D.** studies, Institute of Geophysics, Polish Academy of Sciences, Warsaw, Poland
- 2004 - 2009: **M.Sc. Eng.**, AGH University of Science and Technology, Faculty of Geology, Geophysics and Environment Protection, Krakow, Poland
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April 2017 - **Ph.D. in Geophysics.** PhD Thesis: *Invariants of transfer functions in the 3-D modelling of geoelectrical structures of the Pomerania region*, Institute of Geophysics, Polish Academy of Sciences, Warsaw, Poland

In my thesis I was investigating partial distribution of the transfer function invariants and I compared my results with the 3-D model of resistivity distribution obtained using the ModEM 3-D code.

Placements and Vocational Training Courses

- May 2016: **Training course on ModEM during the Third Workshop on Inversion of Magnetotelluric Data in Bari**
- Feb. 2014: **Magnetotellurics IGGP course DIAS 004 held at Dublin Institute For Advanced Studies**
- Sept. 2008: Student specialist placement of geophysics, AGH
- Jul. 2005: Placement in Geofizyka Kraków Ltd.
- May-Aug. 2005: Student traineeship in geology

Fieldworks

Jun – Aug 2018:	MT measurements in the frame of "INVOLCAN Volcano-Geothermal Research Program" – La Palma island, Spain
Jul – Sept 2017:	MT measurements in the frame of "INVOLCAN Volcano-Geothermal Research Program" - Gran Canaria island, Spain
May – Sept 2016:	LMT measurements in the frame of "Magnetotelluric tomography of the Eastern part of Fore-Sudetic Monocline. Tight gas research."- south-western part of Poland
May 2015:	Audio-MT measurements in cooperation with BGR Hannover - north-western part of Poland
Sept 2013 – Sept 2014:	LMT measurements in the frame of "Trends and origin of crustal electric conductivity anomalies of Poland and their significance for better understanding of the geological building at depth" project (ID: 2011/01/B/ST10/07046) – central and north-eastern part of Poland
May 2012 – Sept 2014:	LMT measurements in the frame of a common Polish – German project - <i>Three-dimensional electromagnetic modelling of the Trans-European Suture Zone (EMTESZ 3-D)</i> – north-western part of Poland
Apr 2010 – Sept 2012:	LMT measurements in the frame of "Study of lithosphere structure near the East European Craton by the magnetovariation method" project (ID: N N307 097437) – southern part of Poland

Publications

1. **Ślęzak K.**, Józwiak W., Nowożyński K., Oryński S., Brasse H., (2018), *3-D studies of MT data in the Central Polish Basin: Influence of inversion parameters, model space and transfer function selection*. Journal of Applied Geophysics. Vol. 161, 26-36, doi.org/10.1016/j.jappgeo.2018.11.008
2. Oryński S., Klityński W., **Ślęzak K.**, Neska A., (2016), *Deep lithospheric structure beneath Polish part of the East European platform as a result of integrated MT 1-D and 2-D data interpretation*. Earth, Planets and Space – submitted
3. **Ślęzak K.**, Nowożyński K., Józwiak W., Brasse H., (2016), *3-D inversion of MT data for imaging deformation fronts in NW Poland*, Pure Appl. Geophys. 173: 2423. doi:10.1007/s00024-016-1275-2
4. Nowożyński, K. and **Ślęzak, K.**, (2013), *Analysis and Usage of Linear Relationships between the Magnetic Field Components Recorded by INTERMAGNET*, Acta Geophys. 61, 511-534.
5. **Ślęzak, K.**, Nowożyński, K., Józwiak, W., Martens, D., Brasse, H. (2013): Three-dimensional MT modelling for the Pomerania region in NW Poland - *Protokoll über das 25. Schmucker – Weidelt – Kolloquium für Elektromagnetische Tiefenforschung*,

25. Schmucker – Weidelt – Kolloquium für Elektromagnetische Tiefenforschung (Kirchhundem-Rahrbach, Germany 2013), p. 60-64;

Presentations and posters

- ❖ Cities on Volcanoes (CoV10): **Katarzyna Ślęzak**, Juanjo Ledo, Perla Piña-Varas, Nemesio M. Pérez, Fátima Rodríguez, Pilar Queralt, Luca D'Auria, *Magnetotelluric study for searching Teide volcano magma chambers, Tenerife, Canary Islands*, 2-7 Sep. 2018, 2 – 7 Sep. Naples, Italy
 - ❖ Conference “Deep structure and geodynamics of Lake Ladoga region”: *Three-dimensional electrical resistivity model of the Pomerania region in NW Poland*, 22-24 Maj 2017, Petrozavodsk, Karelian Republic, Russia
 - ❖ The Second Conference of the Ph.D. Students in the Belsk Observatory - talk title: “3D MT modelling and HMT analysis for the north-west part of Poland”, July 2014, Belsk Duży, Poland
 - ❖ Seminar in the Geodetic and Geophysical Institute, HAS - talk title: “3-D inversion for magnetotelluric data from NW Poland”, June 2013, Sopron, Hungary
 - ❖ Seminar in the Geomagnetic Observatory Lviv- talk title: “Recovering missing records in incomplete observatory data” 21st Aug 2012, Lviv, Ukraine
 - ❖ 4th Science and Technology Days in Raciborz – talk title: “Space weather” 20 Oct 2011, Raciborz, Poland
 - ❖ 2nd Doctoral Seminar in SGGW - talk title: “Application of the magnetotellurics method” 14th Oct 2011, Warsaw University of Life Sciences – SGGW, Warsaw, Poland
 - ❖ Doctoral Seminar - talk title: "Modeling of 2D using Rebocc" 16th Nov 2010, Institute of Geophysics, P.A.S., Warsaw, Poland
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- World Geothermal Congress (WGC), *Electrical Resistivity Time Evolution of Volcanic Islands: Gran Canaria, Tenerife and La Palma Islands (Spain)*, Juanjo Ledo, Perla Piña-Varas, **Katarzyna Slezak**, Marta García, Federico Di Paolo, David Martínez Van Dorth, Nemesio Pérez, Pilar Queralt, Alex Marcuello and Gemma Mitjanas, April 27 – May 1, 2020, Reykjavik, Iceland;
 - 24th EM Induction Workshop: *3D electrical resistivity model of Gran Canaria island (Spain)*, Juanjo Ledo, Hugo Larnier, **Katarzyna Slezak**, Marta García-Merino, Estefanía Gorrioz, Alejandro Marcuello, Nemesio Pérez, Pilar Queralt, Helsingør, Denmark, 13–20 Aug 2018;
 - EGU General Assembly: *Magnetotelluric study for searching Teide volcano magma chambers (Tenerife, Canary Islands)*, **Katarzyna Slezak**, Hugo Larnier, Juanjo Ledo, Perla Piña-Varas, Nemesio Pérez, Fátima Rodríguez, Pilar Queralt, 8–13 Apr. 2018, Vienna, Austria;
 - EGU General Assembly: *Comparison of magnetotelluric and soil gas geochemistry data for geothermal exploration at Gran Canaria, Canary Islands*, Marta García-Merino, Bethany Douglas, Saira Hamid, Sebastian Mead, **Katarzyna Slezak**, Hugo

- Larnier , Juanjo Ledo, Alex Marcuello, Estefania Gorriz , Gladys V. Melián , Nemesio M. Pérez, 8–13 Apr. 2018, Vienna, Austria;
- EGU General Assembly: *Magnetotelluric data acquisition and processing on the volcanic island of Gran Canaria (Canary Islands, Spain)*, Hugo Larnier, Katrina Dorosh, Ross Mowbray, Hannah Rodger, Ian Tourney, Juanjo Ledo, **Katarzyna Slezak**, Marta Garcia Merino, Alejandro Marcuello , Estefania Gorriz, Nemesio Perez, 8–13 Apr. 2018, Vienna, Austria;
 - EGU General Assembly: *3D electrical resistivity model of Gran Canaria island (Spain) from magnetotelluric data*, Juanjo Ledo, Hugo Larnier, **Katarzyna Slezak**, Marta García-Merino, Estefania Gorriz, Augustin Marignier, Nicolas Moya, Amelia Tulley, Alex Marcuello, Eloi Vilamajo, Nemesio Pérez, Pilar Queralt, 8–13 Apr. 2018, Vienna, Austria;
 - EGU General Assembly: *The Fair of Science and Volcanoes*, Pedro A. Hernández, Nemesio M. Pérez, David Calvo, Luca D’Auria, Rubén García-Hernández, Verónica Vela, José Barrancos, Aaron Pérez, Ana Miranda, Hugo Larnier, Iván Cabrera, Jean Soubestre, **Katarzyna Slezak**, Monika Przeor, 8–13 Apr. 2018, Vienna, Austria;
 - Deep structure and geodynamics of Lake Ladoga region: *Deep lithospheric structure beneath the Polish part of the East European Craton as a result of integrated 1-D and 2-D MT data interpretation*, Szymon Orynski, Wojciech Klitynski, **Katarzyna Ślęzak**, Anne Neska, 22-24 May 2017, Petrozavodsk, Karelian Republic, Russia;
 - 23rd EM Induction Workshop: *Comparison of the 3-D inversion results with different type of MT data and model parametrizations*, **Katarzyna Ślęzak**, Waldemar Józwiak, Krzysztof Nowożyński, Heinrich Brasse 14 - 20 Aug. 2016, Chiang Mai, Thailand
 - EGU General Assembly: *Electromagnetic study of lithospheric structure in Trans-European Suture Zone in Poland*, Waldemar Józwiak, **Katarzyna Ślęzak**, Krzysztof Nowożyński and Anne Neska, 17 -22 Apr. 2016, Vienna, Austria;
 - 22nd EM Induction Workshop: *3-D inversion of MT data to image the Variscan and Caledonian Deformation Fronts in NW Poland*, **Katarzyna Ślęzak**, Waldemar Józwiak, Krzysztof Nowożyński, Norbert Hoffmann, Heinrich Brasse 24 – 30 Aug. 2014, Weimar, Germany;
 - 22nd EM Induction Workshop: *The external part of the vertical geomagnetic field as the main criterion for data selection to estimate the reliable long-period geomagnetic and MT transfer functions*, Tomasz Erns, Katarzyna Ślęzak 24 – 30 Aug. 2014, Weimar, Germany;
 - EGU General Assembly: *3-D MT modelling and HMT analysis for the north-west part of Poland*, Katarzyna Ślęzak, Waldemar Józwiak, Krzysztof Nowożyński and Heinrich Brasse, 7 Apr. – 02 May 2014, Vienna, Austria;
 - 25th Schmucker-Weidelt-Colloquium on deep electromagnetic sounding: *Three-dimensional MT modelling for the Pomerania region*, **Katarzyna Ślęzak**, Krzysztof Nowożyński , Waldemar Józwiak, David Martens, Heinrich Brasse 23-27 September 2013, Germany;
 - 73rd Annual Meeting of the German Geophysical Society (DGG): *New magnetotelluric soundings in SE Poland*, Anne Neska, Waldemar Józwiak, **Katarzyna Ślęzak**, 4- 7 March 2013, Germany;
 - 21st EM Induction Workshop: *Deep MT soundings in EEC: Probing upper mantle structure*, Nikolay Palshin, Waldemar Józwiak, Ivan Varentsov, **Katarzyna Ślęzak**, Krzysztof Nowożyński and Nikolay Shustov, 25-31 July 2012, Darwin, Australia.

Teaching Experience

March 2018: Teaching experience during **Tenerife International Training Course on Surface Geothermal Exploration**

2010 - 2015: Teaching experience during „Geophysics at school” project.

Additional skills

Technical skills	working knowledge of magnetotelluric equipment Metronix ADU-06, ADU-07 and ADU-08e
Knowledge of languages	Polish – native English – advanced Spanish – good Russian – basic communication skills
Computer skills	Linux, Windows, MS Office suite skills, experience in PowerPoint presentations and Excel spreadsheets, CorelDRAW, LaTeX, C++,
Additional qualifications	Driving licence,

Personal Qualities, Interests

I am an ambitious, quickly adaptive and well-organized person. I like working in groups and have good interpersonal skills. I can work well under time pressure and make decisions quickly.

Interests: cooking, crocheting

I give my permission for the processing of my personal data that is essential for the recruitment process, in accordance with the Act of 29.08.1997 on the Protection of Personal Data (Journal of Laws No. 133, item 883 amended).