

Zaur Bayramov**Seismology/geodesy**

I hold a bachelor's degree in Geological Engineering, followed by a master's in Earth Sciences. Currently, I am pursuing a Ph.D. in Seismology and InSAR, focusing on the Caucasus region at Unistra.

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**Core business****PHASE 1 Skill development**

On seismological side, I have a solid understanding of automated methods for processing seismological data using python (obspy module), including artificial-intelligence techniques for detection, association, and location/relocation of phase picks. I have developed statistical skills to distinguish between different types of seismic events, such as earthquakes, swarms and anthropogenic events. On the geodetic side, I have foundation in processing of InSAR images using NSBAS (New Small Baseline Subset).

- *Sets his professional goals to be ambitious yet realistic.*
- *Identifies and develops means to enhance his employability throughout his career; manages his professional development.*
- *Broadens and upgrades his skillset, personal qualities and achievements.*
- *Uses his networks to expand his scope of competence.*
- *Knows how to transfer his expertise to other fields of activity.*
- *Realizes the necessarily international dimension of his career path.*
- *Accepts input from a mentor or coach to benefit his professional development.*

PHASE 1 Evaluation

I assess the quality and reliability of data by applying statistical analysis and verifying accuracy and precision through validation methods. I have skills effectively to report findings and visually represent data.

- *Evaluates the value of various documents concerning his field of expertise.*
- *Is able to judge his own results in terms of both quality and added value.*
- *Is willing to expose ideas to a critical audience; takes others' opinions of his work into account.*
- *Is willing to evaluate the work of other contributors and provides reasoned, realistic judgments of others' work.*

PHASE 1 Information management

I use Zotero a powerful reference management software, to efficiently collect, organize, and cite bibliographic references. Besides materials in English I collect Russian and Azerbaijani bibliographies, for effective sourcing and referencing of previous published materials. I also use Seafiler, a secure file synchronization and sharing platform with my supervisors, to store and access research documents and data. Additionally, I use Obsidian, a note-taking tool, to create structured and interconnected notes.



Personal and relational qualities

- *Knows how to review the state of the art (SOTA) in a scientific topic.*
- *Makes efficient use of information-gathering methods, identifies pertinent resources, particularly bibliographic resources.*
- *Masters web-based research (e.g., bibliographic databases, patent databases)*
- *Knows how to judge the pertinence of information, critique sources and check source reliability.*
- *Designs and implements information-gathering and management systems using suitable technology.*
- *Addresses issues relating to the security and life cycle of data.*
- *Seeks out support from experts in information and data management.*

PHASE 1 Communication

I have experience supervising L0 to M1 students and providing guidance and support in their research projects. I also assist students during practical sessions and field trips. Additionally, I communicate with experts in the field of geology in the Caucasus region, as well as local authors of publications that provide interesting results. I have autonomy in my work and interact with my advisors when guidance is needed.

- *Knows how to put together a persuasive presentation and communicate about his project or his activity.*
- *Understands, interprets and communicates appropriately in a register suited to his aims and his audience.*
- *Masters a range of communication tools.*
- *Masters his online identity.*
- *Contributes to the dissemination of knowledge within the company, and demonstrates effective teaching skills.*
- *Is proficient in at least English and one other world language.*

PHASE 1 Collaboration

I actively collaborate with the local researchers in Azerbaijan to stay updated with the latest findings and foster knowledge exchange. Furthermore, I collaborate with the local Azerbaijan seismological seismic survey center to access seismic waveform data, while also sharing their own INSAR data.

- *Develops and maintains cooperative networks.*
- *Knows how to build a professional network for his own and the company's benefit.*
- *Is considered an authority in his field of expertise.*
- *Is able to envisage his work in a partnership framework; evaluates the benefits and limitations of a partnership and identifies shared and conflicting interests.*

PHASE 1 Balance

I manage my time and responsibilities by maintaining a balanced time and effort for both the seismological and InSAR aspects of my research. Additionally, I spend necessary time on administrative tasks and teaching responsibilities of my PhD study.

- *Is aware of his aptitudes, knows how to take advantage of them and demonstrate them.*
- *Expresses himself relevantly, confidently and didactically.*
- *Recognizes the limits of his knowledge, skills and expertise, and knows where to find support when needed.*
- *Is able to consider his practices and experience as part of the bigger picture.*
- *Develops his strengths and knows how to correct his weaknesses by seeking the opinion of others.*
- *Is aware of the need to reconcile career and personal life.*
- *Develops mechanisms to cope with pressure and seeks support when needed.*



Business management and value creation

PHASE 1 Project management

Before initiating any project so far, I have discussed it with all supervisors involved in my PhD to gain a better understanding of the project objectives and requirements. I collect information from local and international sources and methodologies are extensively discussed with supervisors, and if necessary, additional experts are consulted. Moreover, I follow deadlines when delivering projects for conferences.

- *Plans projects to meet goals in accordance with strategy and priorities, and taking quality, deadline and budget constraints into account.*
- *Knows how to write specifications.*
- *Is accountable for resources used and for meeting the deadlines and quality requirements of the deliverable.*
- *Reacts efficiently and appropriately to change and unforeseen events.*
- *Conducts his project within a framework of auditing and evaluation, deploying the appropriate systems.*

PHASE 1 Managing change

I effectively manage every 6-month change in their academic environment between Azerbaijan and France as a co-tutelle student. To adapt to this change, I use remote connections to continue working on INSAR/seismological processing from Azerbaijan. I maintain weekly basis communication with my supervisors to share findings and problems I face. Additionally, I benefit from the guidance and support of their director in Azerbaijan, Gulam Babayev, who assists me for local procedures.

- *Can adapt his approach and the project organization according to imperatives.*
- *Adapts to changes and opportunities; knows how and where to find advice.*

PHASE 1 Obtaining and managing funding

Last year I secured funding for annual winter and summer schools, travel expenses, as well as conferences, through the Programme Doctoral International. This funding has been secured for a period of three years.

- *Manages his own funding and is comfortable in discussions with budget, financial and economic decision-makers.*
- *Understands the funding process and knows how to determine the profitability of an activity.*
- *Knows how to answer a request for proposals and/or write a grant application.*

