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RESEARCH INTERESTS

Earthquake Monitoring	Seismology	Earthquake engineering	Disaster resilience
Seismic Networks	Seismic hazard	Active tectonics	Seismic Array
Seismic risk	Vulnerability	Civil engineering	Catalogue of seismicity

RESEARCH EXPERIENCE

Sept. 2020 – Aug. 2017 **Researcher at Algerian research Center in Astronomy Astrophysics and Geophysics**
Division Hazards and Geological Risks
Risk assessment team

Avl. 2017 – Dec.2018 **Assessment and Management of Geological and Climate Related Risk,**
University of Geneva, Switzerland.

Mar. 2017 – Jul. 2011 **Graduate Research Intern**
Tectonics Observatory, CRAAG, ALGERIA

Sept. 2013 – Dec. 2014 **Research Assistant, Department of Civil engineering**
University of August 20, 1955, ALGERIA

Feb. 2013 – Jun. 2014 **Graduate Research Intern**
University of August 20, 1955, ALGERIA

Jun. 2009 – Jul. 2010 **Undergraduate Research Intern**
Laboratoire de Géologie, ENS, Skidda,
Advisors: Abdou laifa

EDUCATION

- 2013 - 2017 **University of August 20, 1955**
 Ph.D. in Earthquake engineering
 THESIS - Advisor: Prof. Sbartai Bqderddine
 Assessment of seismic risk in urban areas, application in the region of Constantine.
 SECOND PROJECT - Advisor: Prof. Assia Harbi
 Compilation of the catalog of seismicity in the Northeastern region of Algeria.
- 2010 - 2012 **University of August 20, 1955**, Skikda, Algeria
 Second year of M.S. in Earthquake engineering,
 Dual graduate degree program
- 2007 - 2010 **University of August 20, 1955**, Skikda, Algeria
 ENS graduate degree in Civil engineering
 Final year of Bachelor (L3) and first year of Master (M1) within the Civil engineering
- 2005 - 2007 **High school Momamed Belouzded**, Salah Bouchaour, Skikda
 Preparatory classes for schools in Maths and Physics

PUBLICATIONS

ACCEPTED/PUBLISHED

- (7) **Mouloud Hamidatou**, Mohammedi Yahia, Abdulkrim Yelles-Chaouche, Itharam Thallak, Saad Lebdioui, Dietrich Stromeyer, Fabrice Cotton, Nassim Hallal, Omar Khemici. *Seismic Hazard Analysis of surface level, using topographic condition in Northeast of Algeria. Pure and Applied Geophysics*. DOI [10.1007/s00024-019-02310-4](https://doi.org/10.1007/s00024-019-02310-4).
- (6) Nassim Hallal, Abdelkrim Yelles Chaouche, Lamine Hamai, Atmane Lamali, Laurent Dubois, Yahia Mohammedi, **Mouloud Hamidatou**, Leila Djadia, Abdeslam Abtout. *Bull Eng Geol Environ* (2019). <https://doi.org/10.1007/s10064-019-01492-4>
- (5) Yahia Mohammedi, Hamou Djellit, Abdulkrim Yelles-Chaouche, **Mouloud Hamidatou**, and Nassim Hallal. New Evidence of Active Faulting Along the Ain Smara Fault in the Constantine Province (North East Algeria). DOI: [10.1007/978-3-030-01455-1_59](https://doi.org/10.1007/978-3-030-01455-1_59). In book: *The Structural Geology Contribution to the Africa-Eurasia Geology: Basement and Reservoir Structure, Ore Mineralisation and Tectonic Modelling*, pp.271-273
- (4) Redouane Chimouni, Assia Harbi, Mohamed Salah Boughacha, **Mouloud Hamidatou**, Radia Kherchouche, and Amal Sebäi. *The 1790 Oran Earthquake, a Seismic Event in Times of Conflict along the Algerian Coast: A Critical Review from Western and Local Source Materials*. *Seismological Research Letters*, 89 (6): 2392-2403, doi: [10.1785/0220180175](https://doi.org/10.1785/0220180175).
- (3) **Hamidatou et al** (2017); *Probabilistic seismic hazard assessment in the Constantine region, Northeast of Algeria*. 2017. *Arab J Geosci*. DOI [10.1007/s12517-017-2876-5](https://doi.org/10.1007/s12517-017-2876-5).
- (2) **Hamidatou et al** (2016), *Deterministic assessment of seismic risk in Constantine city, Northeast Algeria*. 2017. *Nat Hazards*. DOI [10.1007/s11069-016-2693-2](https://doi.org/10.1007/s11069-016-2693-2).
- (1) **Hamidatou et al** (2013), *Seismic risk assessment of the Constantine city, special issues of SCI-indexed International Journals of RACR 2013 book titled «Intelligent Systems and Decision Making for Risk Analysis and Crisis Response», Proceedings of the 4th International Conference on Risk Analysis and Crisis Response, Istanbul, Turkey, 27-29 August 2013, Edited by CengizKahraman, eBook ISBN: 978-0-203-77147-1, pp 23-28.*

PROJECT

(1) *Research National Project* titled. *Application of methodology hazus to the seismic mitigation of risk in the town of blida /CRAAG. 2013.*

(2) *Research National Project* titled. *Seismic risk assessment of heritage buildings, analysis and intervention: application in skikda city, north-east algeria. University of Skikda, CRAAG, DGRST 2018.*

(3) *Research International Project* titled. *Seismic Vulnerability Assessment of Existing Bridges in Area of low to moderate Seismic Activity Using Scenario Earthquakes, Adapted to the Algerian Context. UNESCO and CRAAG 2019.*

(4) *Research International Project* titled. *Earthquake safety: a strong tool for earthquake risk management in developing countries. RISK Award 2019.*

(5) *Research International Project* titled *Seismic Hazard Assessment for North Africa (SHRNA 2019).*

ADDITIONAL INFORMATION

1. *Teach a modeling module structures, second semester 2013/2014 for master structural engineering at the University of Skikda.*
2. *Co master memory management in earthquake engineering systems is the title: assessing the seismic vulnerability in the city of Skikda 2014.*
3. *Co master memory management in earthquake engineering systems is the title: assessing the seismic vulnerability in the city of Constantine 2013.*

MEMBERSHIPS

Member of the North African Group for Earthquakes and Tsunami studies (NAGET)

Member of the International association of Early-Career geoscientists (YES NETWORK)

SCIENTIFIC COMMUNICATIONS

INVITED SEMINARS

(1) 41 st International Nathiagali Summer College on Physics and Contemporary Needs 18-30 July 2016.

ORAL PRESENTATIONS

(21) **HAMIDATOU M et al.** Deterministic assessment of seismic risk in Constantine city, Northeast Algeria. **SECED 2019 Conference**. 9-10 September 2019 in Greenwich, London.

(20) **HAMIDATOU M et al.** *Seismic hazard Analysis of surface level, using topographic gradient for site condition in Northeast of Algeria.* 8^{ème} Symposium International sur la construction en zones sismiques. (**SICZS2018**)

(19) **HAMIDATOU M et al.** *Seismic Risk Assessment of Heritage Buildings, Analysis and Intervention: Application in Skikda city, North-East Algeria.* 1st International Conference on Vulnerability and Rehabilitation of Structures, on faculty of Civil Engineering USTHB on 7th and 8th of May 2018 in Algiers. **Vurest 2018**.

(18) **HAMIDATOU M et al.** *Seismicity and seismic hazard in Northeast of Algeria 1900-2017. Presented in the seventh Maghrebian Colloquium of Applied Geophysics held by the Research Centre in Astronomy, Astrophysics and Geophysics the 20-22 February 2018.*

(17) **HAMIDATOU M et al.** *Utilisation des « SIG » pour évaluation du risque sismique en milieu urbain : application à la ville de Constantine, nord-est de l'Algérie. Présentée à la 3^{ème} Edition du Colloque International des utilisateurs du SIG. Maroc, Oujda les 22 et 23 novembre 2016.*

(16) **HAMIDATOU M et al.** *Méthodologie d'estimation du risque sismique et dommages, application dans la ville de Constantine. Communication présentée au 34^{èmes} Rencontres de l'AUGC, Université de Liège, Belgique, 25 au 27 mai 2016.*

(15) **HAMIDATOU M et al.** *Analysis of seismicity and establishment of seismic risk maps Northeast Algeria. Presented at the 1st ArabGU International Conference (AIC-1) Algiers February 17-18 2016.*

(14) **HAMIDATOU M et al.** *Seismic Risk Assessment in an urban area of Constantine city in North-East Algeria. Presented at the French-Japanese Symposium on Earthquakes and Triggered Hazards, BRGM -Orléans France 16-18 September 2015.*

(13) **HAMIDATOU M et al.** *Methodology to estimate the damage and earthquake losses in urban areas, North-Eastern Algeria. Presented at the conference Georisks in the Mediterranean and their Mitigation, organized by University of Malta Valletta Campus. 20 - 21 July 2015.*

(12) **HAMIDATOU M et al.** *Probabilistic Seismic Hazard Analysis for Northeast Algeria. Presented at The Meeting Day "Young researchers overseas", organized by the Royal Academy of Overseas Sciences Wed, 16 December 2014, Brussels.*

(11) **HAMIDATOU M et al.** *The seismic hazard and the Management of Urban Areas, Application in the City of Constantine, Algeria Northeast. Presented at The Days International Scientific Engineering Risk And Territory 7 and 8 November 2014, University of Oran.*

(10) **HAMIDATOU M et al.** Assessment of effect amplifying the acceleration in urban site of Constantine city, Algeria. Presented at The Fourth Arab Conference on Astronomy and Geophysics 20 to 23 October 2014 in Helwan, Cairo, Egypt.

(9) **HAMIDATOU M et al.** Seismic risk assessment of the Constantine city, Algeria. Presented at The 4th International Conference on Risk Analysis and Crisis Response August 27-29, 2013, Istanbul Turkey.

(8) **HAMIDATOU M et al.** Application de la méthodologie déterministe à l'évaluation du risque sismique dans la ville de Constantine. Presented at the One day of study risks natural constantinois " Mars 2013.

(7) **HAMIDATOU M et al.** Scenario for Seismic Risk of the City of Constantine (Algeria). Presented at the International Conference on Geotechnical Engineering Hammamet, 21 - 23 February, 2013- Tunisia.

(6) **HAMIDATOU M et al.** PREDICTION OF SEISMIC RISK (M=6.5) OF THE CONSTANTINE CITY, ALGERIA. PRESENTED AT INTERNATIONAL CONFERENCE ON EARTHQUAKE GEOTECHNICAL ENGINEERING 17-19 JUNE 2013, ISTANBUL, TURKEY.

(5) **HAMIDATOU M et al.** Utilisation de sig pour l'évaluation du risque sismique de la ville de Constantine, Algérie. Communication presented at the Six th Conference Maghrébin de Géophysique Applied, Meknès 3, 4 and 5 May 2013.

(4) **HAMIDATOU M et al.** Scenario du risque sismique de la ville de Constantine. Presented at the National Seminar "Géorisques 2012" at the University of Jijel December 04 and 05 2012.

(3) **HAMIDATOU M et al.** Evaluation du Risque Sismique de la Ville de Constantine. Presented at the international seminar Risks and Civil Engineering University of Batna 26-28 Novembre 2012.

(2) **HAMIDATOU M et al.** Estimation du Risque de Liquéfaction Sous Sollicitations Sismique du nord de la commune de filfila W.Skikda. Presented at the international seminar Risks and Civil Engineering University of Batna 26-28 novembre 2012.

(1) **HAMIDATOU M et al.** Evaluation du Risque Sismique dans la Wilaya de Constantine. Presented at the International conference on the Reduction of the Seismic Risk Chlef from the 10 to 11October 2012.

POSTERS

(11) **HAMIDATOU M et al.** Seismic Hazard Assessment in Northeast part of Algeria. The third edition of the Algerian Geoscience and Remote Sensing Summer School - AGR3S 2019 - will be held from 6th to 11th July, 2019, at the Ziane Achour University in Djelfa, Algeria.

(10) **HAMIDATOU M et al.** Seismic activity in Algeria. International Conference on Natural Hazards and Risks in a Changing World 4.-5. October 2018, University of Potsdam 2018.

(9) **HAMIDATOU M et al.** Analysis of the seismicity of northeast Algeria. 2nd International Symposium on the Geology of the Chain of Maghreb and neighboring regions - Setif, 4-6 December 2018.

(8) **HAMIDATOU M et al.** Comparaison des méthodes d'évaluation de la vulnérabilité sismique du bâti existant. Presented at the International Symposium on Construction Management and Civil Engineering, held on November 15-16, 2017. University 20 Aout 1955-Skikda, Algeria.

(7) **HAMIDATOU M et al.** Analyse de la sismicité du Nord-est de l'Algérie. Presented at the 1st International Symposium on the Geology of the Maghrebides chain and adjacent areas (CIGCM 2016) – Setif, Algeria – 4-6 december 2016.

(6) **HAMIDATOU M et al.** Probabilistic seismic hazard assessment in the Constantine region, Northeast of Algeria. Presented at the 1st Arabian Geoscience Union International Conference AIC 1 17-18 February 2016 Algiers.

(5) **HAMIDATOU M et al.** *Evaluation de l'Aléa Sismique dans la région Constantinoise par-là l'input de l'activité Sismique dans les Zones Urbaines et l'Etablissement d'un Catalogue Nord-Est Algérien.* Presented at the CRAAG-UFAS Colloque - 27 and 28 October **2015**.

(4) **HAMIDATOU M et al.** *Earthquake Hazard Assessment: methodology and example in the Constantine Region (Northeast Algeria).* Presented at the Topo Europe workshop in Antibes France 4-7 Octobre **2015**.

(3) **HAMIDATOU M et al.** *PROBABILISTIC SEISMIC HAZARD ASSESSMENT OF THE SEISMIC ACTIVITY IN URBAN AREAS IN THE CONSTANTINE REGION, NORTH-EAST ALGERIA.* Presented at the French-Japanese Symposium on Earthquakes and Triggered Hazards, BRGM -Orléans France 16-18 September **2015**.

(2) **HAMIDATOU M et al.** *PREDICTION OF SEISMIC RISK (M=6.5) OF THE CONSTANTINE CITY, ALGERIA.* Presented at the International symposium titled "The large Medeteranean Earthquakes from past to present " Algiers 21-23 May **2013**.

(1) **HAMIDATOU M et al.** *Évaluation de la vulnérabilité sismique en milieu urbain : Application à la ville de Constantine.* Presented at the 1st International Seminar on Civil Engineering 6 and 7 March **2013** University of Bechar.

GRANTS AWARDED

2016 California Earthquake Center Research Grant #16452 (\$15,000) - Co-writer

TEACHING EXPERIENCE

Fall 2016 Science and Engineering Course Design

Fall 2015 Earthquakes and Seismic hazard

HONORS AND AWARDS

- Prize for the best presentation **2018** - Algerian American Foundation, Summer University in Civil Engineering, USTHB-Algiers.
- **2016** Geophysical Journal International Student Author Award Winner
- Early Career Scientist's Travel Support, EGU **2015** General Assembly
- GeoPRISMS Student Prize - Honorable Mention, **2014** AGU Fall Meeting
- Student Prize, the Fourth Arab Conference on Astronomy and Geophysics 20 to 23 October **2014** in Helwan, Cairo, Egypt.

FIELD AND SCHOOL EXPERIENCE

- July. 2018 **Algerian American Foundation, Summer University in Civil Engineering, USTHB-Algiers,**
July 8th - July 14th 2018
- Apr. 2017 **Specialisation certificate assessment and Management of Geological and Climate Related Risk**
30 Edition April 08-June 30, 2018. University of Geneva, Switzerland.
3-month school and field trip.
- Apr. 2017 **UNITAR training Rapid response mapping in disaster situation.**
25-27 April 2017 in Geneva, Switzerland
3-day school.
- Jun. 2016 **Training in Seismic Risk of the Fault in the Structures, SINAPS @ Earthquake and Nuclear
Installation, Improve and Sustain the Safety.**
29 May - 03 June 2016, School of Physics of Houches; France.
5-day school.
- May 2016 **Mediterranean School on Modeling & Multi-Scale Imagery in Earth Sciences.**
Algiers Spring School | May 10 to 19th, 2016.
10-day school.
- Apl. 2016 **Training Course on "Seismic Hazard".**
06 March to 18 April, 2016, Potsdam, Germany.
39-day school.
- Oct. 2015 **TopoEurope workshop on Satellite missions and applications.**
Organized by ESA on October, 8th 2015.
1-day school.
- Sep. 2015 **Course on Seismology, Seismic Data Analysis, Hazard Assessment and Risk Mitigation.**
August 10 to September 4, 2015. Potsdam, Germany.
30-day school and field trip
- May 2015 **School on geographic information systems for the management of disaster risk.**
1-5 March 2015 University science and technology Houari Boumediene-USTHB Algiers.
3-day school.
- Nov. 2014 **First school on the Geology of Maghrebides.**
Jijel from 24 to 27 November 2014, organised by CRAAG and University of Jijel.
4-day field trip in the Jijel region.
- Oct. 2014 **School on Advanced Modeling of Seismic hazard in Africa.**
(24-29 October 2014) Helwane Egypt; organised by NRIAG, Egypt and ICTP, Italy.
6-day school.
- Dec. 2013 **School on Earthquake and Tsunami Hazard and Risk**
(09-20/12/2013) Algiers, organised by ICTP.
11-day field trip on regional geology, physical volcanology and tectonics.
- Nov. 2013 **Field work on Neotectonics in the Constantine basin**
30-day field trip in the Constantine region
- May 2012 **International Greece field course "Active faults"**
8-day field trip on active tectonic structures in the region of Corinth Gulf and South Peloponnese.

OTHER SKILLS

Languages	Fluent in Arabic (native language) Fluent in French Fluent in English	
Programming	Matlab, R, Fortran, Mathematica, L ^A T _E X	
Software	Photoshop, Illustrator, Microsoft Office Windows, Mac OS X & Linux interfaces ArcGis/Mapinfo/GlobalMapper / Envi	GiD, PIVview2C ABAQUS, PyLith

REFERENCES

Prof. Dr. Fabrice Cotton

Head of Section 2.6 "Seismic Hazards and Stress Fields" in GFZ
Professor in Geophysics at the University of Potsdam
E-mail: fabrice.cotton@gfz-potsdam.de
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Prof. Dr. Sebastiano Damico

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Amar A. Chaker, Ph.D., F.AEI, F.EMI, F.ASCE
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AMERICAN SOCIETY OF CIVIL ENGINEERS
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Prof. Dr. Donat Fäh

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Swiss Seismological Service (SED). ETH Zürich
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