



## ACADEMIC CURRICULUM VITAE

March 2023

### 1- PERSONAL INFORMATION

**Name** Essam Mohamed Sidique Mohamed  
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**E-mail 3:** [essamsidique@scinv.au.edu.eg](mailto:essamsidique@scinv.au.edu.eg)

**Nationality:** Egyptian  
**Date of birth:** 1<sup>st</sup> January, 1983  
**Place of birth:** Alexandria, Egypt

### 2- ACADEMIC DEGREES

**February, 2019** **Ph.D. (Experimental Nuclear Physics)**, Faculty of Science, Assiut University, Egypt.  
**Ph.D. Thesis Title:** “Assessment of Natural Radioactivity in Natural Samples from North and South Eastern Desert, Egypt”

**October, 2013** **M.Sc. (Experimental Physics)**, Faculty of Science, Assiut University, Egypt.  
**M.Sc. Thesis Title:** “Characteristics of Corona Discharge from Multi-Coronating Points”

**July, 2006** **B. Sc. (Physics)**, Faculty of Science, Assiut University, Egypt.

### 3- OCCUPATIONS

**March 2019 to date** **Lecturer - Department of Physics**, Faculty of Science, New Valley University, Egypt

**Nov. 2013 – Feb. 2019** **Assistant Lecturer - Department of Physics**, Faculty of Science, New Valley Branch, Assiut University, Egypt.

**4- LIST OF PUBLICATIONS**

1. **E. Sidique**, S. H. A. Hassan, and M. M. Dawoud, "Natural Radioactivity Measurements and Radiological Hazards Evaluation for Some Egyptian Granites and Ceramic Tiles," Sustainability, vol. 14, p. 14611, 2022.
2. G. Salaheldin, M. Elhaddad, and **E. Sidique**, "Radon concentration and exhalation rate for granitic rocks, Central Eastern Desert, Egypt," Arabian Journal of Geosciences, vol. 15, p. 1221, 2022/06/29 2022.
3. **E. Sidique**, M. A. Elhaddad, S. F. Abdelwahab, and H. H. El Hadek, "Health Hazards Assessment and Geochemistry of ElSibai-Abu ElTiyur Granites, Central Eastern Desert, Egypt," Applied Sciences, vol. 11, p. 12002, 2021.
4. H. El-Gamal, **E. Sidique**, and M. El-Haddad, "Spatial Distributions and Risk Assessment of the Natural Radionuclides in the Granitic Rocks from the Eastern Desert, Egypt," Minerals, vol. 9, p. 386, 2019.
5. H. El-Gamal, **E. Sidique**, M. El-Haddad, and M. E.-A. Farid, "Assessment of the natural radioactivity and radiological hazards in granites of Mueilha area (South Eastern Desert, Egypt)," Environmental Earth Sciences, vol. 77, p. 691, 2018.
6. H. El-Gamal, **E. Sidique**, and M. El-Azab Farid, "Considerable radioactivity levels in the granitic rocks of the central areas of the Eastern Desert, Egypt," Environmental Science and Pollution Research, vol. 25, pp. 29541-29555, 2018/10/01 2018.
7. M. Abdel-Salam, A. Hashem, and **E. Sidique**, "Characteristics of negative corona discharge in single-needle-and multi-needle-to-plane configurations," International Journal of Plasma Environmental Science and Technology, vol. 7, pp. 121-135, 2013.

**5- CONFERENCES**

1. **Oral presentation**: "Assessment of the natural radioactivity and radiological hazards in granites of El-Dib area (North Eastern Desert, Egypt)". The 1st Conference of Basic Sciences and its Applications, 9 - 10 April 2019, Faculty of Science, New Valley University, El-Kharga, Egypt
2. **Oral presentation**: "Characteristics of positive corona discharge in single-needle-and multi-needle-to-plane configurations". The Third Conference for Young Researchers in Basic Science & Technology, 19-20 April, 2011, Assiut University, Egypt.

**6- TEACHING EXPERIENCES**

Course	Date	Target students	University
1- Nuclear Physics (1)	March, 2019 – till date	Science Students	Assiut University - New Valley University

2- Nuclear Physics (2) 3-Computational Physics 4- Electrodynamics 5- Electromagnetic Theory 6- Electronic circuits 7- Use of Computer in Physics 8- Material properties 9- Electricity and Magnetism		Education Students	
<b>Practical courses</b> 1- Nuclear physics 2- Radiation Physics 3-Introduction of General physics 4-Solid State Physics 5-Thermodynamic Physics 6-Electricity and Magnetism 7-Semiconductors Physics 8-Electronics (1) 9-Electricity and AC current	2007 to 2019	Science Students Agriculture Students Education Students Veterinary Students	Assiut University- New Valley University

### 7- TRAINING ATTENDED / TECHNICAL SKILLS ACQUIRED

Title	Period	Place	Role
Thinking Skills	2 – 4 April 2007	Assiut University	Trainee
Teaching strategies for large and small groups	5 – 7 June 2007	Assiut University	Trainee
Use of Technology in Teaching	1 – 3 July 2007	Assiut University	Trainee
Effective Presentation	2 – 4 Feb. 2008	Assiut University	Trainee
Communication Skills in Different Education Patterns	5 – 7 Feb. 2008	Assiut University	Trainee
Exams and Students Evaluation Systems	3 – 5 May 2008	Assiut University	Trainee
A training course of financial, administrative and legal affairs	25 – 27 March 2013	Assiut University	Trainee
International Publishing of Research	18 – 20 Jan. 2014	Assiut University	Trainee
Research Ethics	25 – 26 Jan 2014	Assiut University	Trainee
University Administration	8 – 9 Feb. 2014	Assiut University	Trainee

Code of Ethics	26 – 27 Jan. 2016	Assiut University	Trainee
E-Learning (Advanced)	7 – 8 Feb. 2016	Assiut University	Trainee
German Language Course	5 Feb. – 17 April 2016	Assiut University	Trainee
University Teacher Preparation Course	16 – 21 April 2016	Assiut University	Trainee
English Language Proficiency Test (ELPT)	15 April 2018	Assiut University	Trainee
Analytical and Creative Thinking in Teaching	30 – 31 Jan. 2018	Assiut University	Trainee
Workshop on Electronic Exams	21 Dec. 2020	New Valley University	Trainee

## 8- RESEARCH INTERESTS

- Nuclear Physics
- Radiation physics
- Environmental Radioactivity Monitoring
- Environmental Sciences and Ecology
- Rock and Soil chemistry
- Geochemistry and Geophysics

## 9- RESEARCH SCORES

	h-index	website
Scopus	4	<a href="https://www.scopus.com/authid/detail.uri?authorId=55841668800">https://www.scopus.com/authid/detail.uri?authorId=55841668800</a>
Google scholar	4	<a href="https://scholar.google.com/citations?hl=en&amp;user=sGht4JUAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=sGht4JUAAAAJ</a>
Research gate score	4	<a href="https://www.researchgate.net/profile/Essam-Sidique">https://www.researchgate.net/profile/Essam-Sidique</a>

## 10- PROJECTS

2013-2015: Participated in the project: “The Evaluation of Uranium in some Egyptian Rocks for Nuclear Electric Power Generation” funded by the Ministry of Higher Education, grant number ASP-015. Wrote my thesis and published five different publications as an outcome of the project.

My thesis entitled “Assessment of Natural Radioactivity in Natural Samples from North and South Eastern Desert, Egypt”.

The publications are:

- 1) H. El-Gamal, **E. Sidique**, and M. El-Azab Farid, "Considerable radioactivity levels in the granitic rocks of the central areas of the Eastern Desert, Egypt," Environmental Science and Pollution Research, vol. 25, pp. 29541-29555, 2018/10/01 2018.
- 2) H. El-Gamal, **E. Sidique**, M. El-Haddad, and M. E.-A. Farid, "Assessment of the natural radioactivity and radiological hazards in granites of Mueilha area (South Eastern Desert, Egypt)," Environmental Earth Sciences, vol. 77, p. 691, 2018.
- 3) H. El-Gamal, **E. Sidique**, and M. El-Haddad, "Spatial Distributions and Risk Assessment of the Natural

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Radionuclides in the Granitic Rocks from the Eastern Desert, Egypt," Minerals, vol. 9, p. 386, 2019.

4) **E. Sidique**, M. A. Elhaddad, S. F. Abdelwahab, and H. H. El Hadek, "Health Hazards Assessment and Geochemistry of ElSibai-Abu ElTiyur Granites, Central Eastern Desert, Egypt," Applied Sciences, vol. 11, p. 12002, 2021.

5) G. Salaheldin, M. Elhaddad, and **E. Sidique**, "Radon concentration and exhalation rate for granitic rocks, Central Eastern Desert, Egypt," Arabian Journal of Geosciences, vol. 15, p. 1221, 2022/06/29 2022.

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### 11- COMPUTING SKILLS

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- Good Computer skills
  - Microsoft Office
  - Origin Software
  - Matlab Programming language
  - Fortran Programming language
  - SPSS Software
  - Endnote Software
  - ArcMap Software
  - Genie™ 2000 Basic Spectroscopy Software
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### 12- LANGUAGE SKILL

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- Arabic (Mother tongue)
  - English (Very good - written and speaking)
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### 13- HOBBIES

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- Exercising
  - Reading
  - Movies
  - Walking
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### 14- MISCELLANEOUS

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- Have extensive experience preparing and examining any sample, whether it is natural samples (rock, soil, water, plants, etc.) or building materials samples, foodstuffs, chemical fertilizers, or natural fertilizers, to determine the level of natural radioactivity using **gamma-ray spectroscopy techniques**.
- Expertise in the determination of radioisotopes by different gamma-ray spectroscopy detectors (**HPGe and NaI**).
- Have good experience in measuring the concentration of radioactive radon gas in water and air inside and outside buildings using the **alpha-guard device**, as well as providing advice on how to reduce radon levels to safe levels.
- Familiar with the **ICP-MS** technique used to determine low-concentrations and ultra-low-concentrations of radioactive elements.
- Have experience in investigating the characteristics of the corona

discharge from single-point- and multi-point-to-plate configurations including the onset voltage and the current-voltage relationship in air.

- Willingness to travel to national and international places to participate and learn.
- Ability to work in different environments, with a team, and independently.

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**REFEREES:**

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**1- Prof. M. El-Azab Farid**

Professor of Nuclear Physics, Assuit University,  
Egypt

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**2- Dr. Sedky Hassan Aly Hassan**

Associate professor of Botany & Microbiology, New  
Valley University, Egyp

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**3- Prof. Mervat Elhaddad**

Professor of Geology, Assuit University, Egypt

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**4- Prof. Hany El-Gamal**

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Assuit University, Egypt

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**Declaration**

I hereby declare that the given information is true to the best of my knowledge and belief.



Dr. Essam Sidique