

# Samy George Alamir Soliman

Teaching Assistant – Analytical Chemistry

## Contact

Nationality: Egyptian.  
Languages: Arabic (Native), English (Fluent),  
French (Basic).

+201006000038

sami.goerge@pharma.asu.edu.eg

Faculty of Pharmacy, Ain Shams University,  
Cairo, Egypt

## Professional Profile

Analytical chemistry research and teaching assistant with a strong academic background in pharmaceutical sciences and hands-on experience in instrumental analysis. Actively involved in teaching undergraduate and postgraduate courses, scientific research, method development, and academic writing, with focused expertise in green analytical chemistry, chromatography, deep eutectic solvents, carbon dots, experimental design, elemental analysis, and sample preparation.

## Transferable Skills

- Computer Skills
- Scientific Writing & Academic Research
- Patience & Critical Thinking
- Teaching & Communication
- Detail-oriented & Time Management
- Teamwork & Problem Solving
- Adaptability and Enthusiasm



## Academic Appointments

### Study Leave

University of Nizwa, Oman

2023 - 2025



## Conscription

### Air Defense Forces

Egyptian Armed Forces

2019 - 2020

Role: Soldier | Distinction: Role Model



## Education

### Bachelor of Pharmaceutical Sciences

Ain Shams University, Cairo, Egypt

2014 - 2019

Excellent with Honors

### High school

New Ramses College

2000 - 2014



## Experience

### Teaching

#### Undergraduate

Supervise undergraduate laboratory experiments and reports

Contributed to curriculum delivery and assessment design

Courses: Physical & inorganic chemistry, Analytical chemistry I & II,  
Instrumental analysis, Food & Cosmetics analysis, Quality control.

#### Postgraduate

Instrumental Analysis, Training, and Professional Development.

## Peer-Reviewed Publications

#### Exploring lactoferrin as an innovative covalently immobilized chiral selector for the selective separation of pharmaceutical enantiomers using HPLC

Research article, *Analytica Chimica Acta*.

April 2026

#### Multifaceted boron nitride nanomaterials: a comprehensive review of synthesis, property engineering and multidisciplinary applications

Review article, *RSC Advances*.

February 2026

#### A quality-by-design optimized LC method for navigating degradation kinetics and quantification of favipiravir in the presence of degradation products and manufacturing impurities

Research article, *BMC Chemistry*

August 2025

#### Determination of chlorpyrifos using GC-FID in pesticides and human plasma; method validation with greenness assessment

Research article, *Accreditation and Quality Assurance*

May 2025

#### The Interplay of Selenium and Human Health

Book chapter, *IntechOpen*

April 2025

#### An eco-friendly HPLC method for the sustainable analysis of the newly approved combinations of Alfuzosin and Tamsulosin, with Tadalafil in organic-solvent-free mixed-micellar systems

Research article, *Analyst*

April 2025

#### Experimental Design Utilizing Mixed Micellar Monolithic Liquid Chromatography and Ethanol for Rapid Simultaneous Determination of Four Antipsoriatics: A Blue Green Approach

Research article, *Separation Science Plus*

February 2025

#### Leveraging Green Chromatography in Quality-by-Design-Driven Study for the Simultaneous Analysis of Essential Single-Pill Antidiabetic Drug Combinations

Research article, *Journal of Separation Science*

December 2024

#### Investigating Trace and Macro-element Composition of Herbal and Nutraceutical Dietary Supplements Marketed in Oman: Insights into Safety and Labeling

Research article, *Biological Trace Element Research*

August 2024

#### Tracking the Variations in Trace and Heavy Elements in Smoking Products Marketed in Oman and Egypt: Risk Assessment After Implementation of Constraining Protocols

Research article, *Biological Trace Element Research*

April 2024

## 🔧 Technical Skills

- Method Development & Validation
- Chromatographic Techniques
- Chirality and Enantiomeric Separation
- Elemental Analysis and Risk Assessment
- Experimental Design, QbD, and Docking
- Data Analysis
- Deep Eutectic Solvents Synthesis
- Use of Ionic Liquids as Mobile Phase Additives
- Use of Different Assessment Metrics

## 📖 Certifications, Workshops & Courses

• <b>Legal Considerations in the Academic Duties of the Assistant Teaching Staff</b> TDC Ain Shams	2025
• <b>Certificate of Appreciation</b> NMSRC, University of Nizwa	2025
• <b>Certificate of Participation</b> OMREN	2025
• <b>Smart Search Techniques with Cloud Technologies and Artificial Intelligence</b> University of Nizwa	2024
• <b>Certificate of Participation</b> University of Nizwa Research Day	2024
• <b>Secrets of HPLC Methodology Workshop</b> Ahram Canadian University	2023
• <b>Scientific Writing</b> Nature Research Academies & TDC Ain Shams	2021
• <b>Test of English Language Proficiency (TELP), Score: 650</b> Ain Shams University	2021
• <b>Effective Teaching</b> TDC Ain Shams	2020
• <b>Certificate of Appreciation</b> Brigade 19, Egyptian Air Defense Forces	2020
• <b>Nano Drug Delivery Systems Workshop</b> Nawah Scientific	2019
• <b>Summer Intern</b> Minapharm Pharmaceuticals (Production & QC)	2018
• <b>Summer Intern</b> El Ezaby Pharmacies	2018
• <b>Summer Intern</b> Amoun Pharmaceuticals (R&D, QC, Production, Microbiology)	2016
• <b>Certificate of Honor</b> Forensic SCOPS, Faculty of Pharmacy, Ain Shams University	2016
• <b>Forensic Pharmacy Workshop</b> SCOPS, Faculty of Pharmacy, Ain Shams University	2016
• <b>Basics of Marketing</b> AstraZeneca	2015
• <b>Gateway OTC Course</b> Ain Shams University	2015