



# Marvy Girgis

Analytical Chemist

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## ABOUT ME

Experienced forensic chemist with a master's in analytical chemistry and a passion for research. Proficient in GC-MS, LC-MS, UV, NMR, FT-IR, and other techniques, with expertise in method development and data analysis using multiple software. Strong problem-solving and project management skills with advanced knowledge in data analysis and modeling using tools like R. Seeking a research or Ph.D. position to apply analytical expertise and contribute to cutting-edge advancements in the analytical chemistry field.

## SKILLS & PROFICIENCIES

- GC-MS, LC-MS/MS, UV, NMR, FT-IR, wet chemistry, viscosity, and density.
- Chemstation, Mass Hunter, AMDIS, and Empower 3.
- Method development and validation.
- Knowledge of ISO 17025 and GMP.
- Data analysis and modeling using Spreadsheets, SQL, Power BI, and R.
- Advanced storytelling and presentation skills.
- Analytical thinking and research skills.
- English: Fluent | French: Intermediate.

## CERTIFICATIONS AND PUBLICATIONS

**Google Data Analytics Professional Certificate**  
Nov. 2021 (offered by Coursera)

Learning fundamentals of data collection, cleaning, analysis, and visualization using **Spreadsheets, SQL (Big Query), R, and Tableau** and completed a practical case study.

**Correlation and modeling of the penetration and softening point tests of bitumen binders with a variety of physical and chemical properties.** (first author)

<https://doi.org/10.2516/ogst/2021046>

## WORK HISTORY

### Analytical Chemist Intern (Master project)

*IFP Energies Nouvelles, France | Mar. - Sept. 2020*

Performed **modeling of some standard characterization tests of bitumen** - that were usually outsourced - using available analytical devices (like FT-IR, and Viscosity).

### Forensic Chemist and Toxicologist

*Forensic Medicine Authority, Egypt | 2010 - 2018 | Present*

Prepared and **analyzed many biological samples using GC-MS (Agilent), LC-DAD (Waters), and other techniques.** Built an Excel sheet with a search function to match the UV spectrum of an unknown substance with pre-recorded spectra.

Trained 5 colleagues to operate and troubleshoot analytical instruments (GC-MS, UV)

### Organic Chemistry Tutor

*Independent, partial-time job | 2013 - 2018*

Helped more than 200 students to understand the basics of organic chemistry and pass with above-average grades

### Chemistry Demonstrator

*Sinai University, Egypt | 2009 - 2010*

## EDUCATIONAL BACKGROUND

### Claude Bernard Lyon 1 University (UCBL) / Tartu University

Master in physical and analytical chemistry.

Study of different theoretical and practical topics (metrology / LC-MS method development and validation/chemometrics and data modeling / atomic and molecular spectroscopy / project management and other courses)

*Lyon, France / Tartu, Estonia - Graduated Sep. 2020*

GPA 4.49 / 5

### Assiut University

Bachelor in Pharmaceutical Sciences.

*Assiut, Egypt - Graduated June 2008*

### The 12th International Summer School on Analytical Science, Metrology and Accreditation

*Lyon, France - July 2019*