

Arshia Esmaeilian

New York, NY | arshiaesmaei1@gmail.com | (813) 753-5688 | [LinkedIn](#) | [Portfolio](#)

EDUCATION

University of South Florida

GPA: 4.0/4.0 | Graduated May 2026

- *B.S. in Chemistry, Minor in French and Francophone Studies | Presidential Scholarship*
 - **Honors:** Summa Cum Laude; Phi Beta Kappa; King O'Neal Scholar
 - **Coursework:** Medical Terminology, Introductory Statistics, Advanced Biochemistry I, Microbiology

CLINICAL EXPERIENCE

Emergency Medical Responder, USF Medical Response Unit

Sep 2024 – May 2026

- Assessed, stabilized, and documented care for patients on 1–3 campus medical and trauma calls per shift, including overlapping incidents, until handoff for further care
- Deployed with a state response team during Hurricanes Helene and Milton, providing shelter-based medical support to 200+ patients, mostly older adults and unhoused individuals
- Received the MRU Meritorious Service Award and Disaster Response Team challenge coin

Health Support Staff Volunteer, USF Student Health & Wellness

Sep 2024 – May 2025

- Obtained vitals, documented patient information, and completed intake for 3–4 patients per hour before visits
- Roomed patients and supported providers to keep clinic flow moving in a busy student health center

Post-Anesthesia Care Unit Volunteer, Moffitt Cancer Center

Sep 2023 – Nov 2024

- Supported 2–3 postoperative patients per hour in the PACU and transported cleared patients to discharge
- Guided patients and families, answering questions through the Patient Experience Department

RESEARCH EXPERIENCE

Research Assistant, Bill Baker Natural Products Lab at USF

Jan 2024 – Present

- Advanced 4 drug discovery projects screening fungal and marine extracts from Mexico, the Everglades, and Antarctica for antifungal and anti-tubercular activity, following standardized bioassay-guided protocols
- Recorded and analyzed assay results (including IC_{50}) to prioritize active fractions; ruled out leads in 3 antifungal projects and advanced promising anti-tubercular Antarctic hydrozoan fractions
- Presented findings at Harvard, FURC, and USF Castle; contributing author on a manuscript in preparation on novel compounds from Everglades mangrove samples

ADDITIONAL EXPERIENCE

Subject Tutor, USF Academic Success Center

Jan 2025 – May 2026

- Explained complex General and Organic Chemistry concepts in one-on-one and group sessions of up to 8 students, adapting to each student's level
- Selected as a founding tutor for the Math in Chemistry track of the Center's new Peer Math Coaching program; featured in the Florida College Learning Center Association's Staff Spotlight (Dec 2025)

President, Iranian Students Association at USF

May 2024 – May 2026

- Coordinated executive meetings and partnerships, including hosting the Florida premiere of the play *Voices Unveiled* with the Persian American Society of Tampa Bay
- Served as media spokesperson for Iranian students in the US; interviewed by *The Washington Post*, *Tampa Bay Times*, *Spectrum Bay News 9*, and other outlets on the impact of war and immigration restrictions
- Planned cultural and advocacy events, including 2 music competitions and campus demonstrations, drawing 300–500 attendees per event

SKILLS, CERTIFICATIONS & LANGUAGES

Languages: English (Fluent), Farsi (Fluent), French (Intermediate), Spanish (Beginner)

Certifications: Good Clinical Practice (GCP, NIDA CTN), EMR, BLS, CRLA Level I Tutor

Clinical: Patient assessment, vital signs, triage, patient care documentation, medical terminology

Lab: Bioassay-guided screening, aseptic technique, BSL-2, fungal cultivation, partitioning, IC_{50}

Analytical: HPLC, MPLC, HRMS, column chromatography (C8, LH-20), NMR (1H , ^{13}C , HSQC)