Sabrina Gallego

www.linkedin.com/in/sabrina-gallego • sabrinagallego7@gmail.com • (631)708-8277 • Permanent Address: Huntington, NY

Education

Georgia Institute of Technology, Atlanta, GA *Projected Graduation: May 2019*

- Candidate for Bachelor of Science in Chemistry **GPA: 3.19**
- Minor in Materials Science and Engineering
- Member of Honors Program (10% acceptance rate)
- Provost Scholar (out-of-state merit-based scholarship awarded to 40 freshmen each year)
- Completion of Malvern Panalytical Advanced Highscore Plus XRD Course

Work Experience

Boston Scientific Neuromodulation - Quality/Microbiology Intern *June 2018-August 2018*

- Learned about biocompatibility and microbiology protocols for all devices and components in production
- Communicated across departments to gather and compile information for comprehensive analyses of all products to optimize leveraging and biocompatibility
- Responded to notified bodies about products currently under assessment to continue compliance with new European Union Medical Device Regulation

Georgia Tech Research Institute - Undergraduate Research Assistant *May 2016 - February 2018*

- Former member of the Structured and Applied Materials branch of the Advanced Concepts Laboratory
- Synthesized and characterized scintillating glass-ceramics for medical imaging and nuclear detection
- Used sol-gel autocombustion synthesis to create spinel ferrites
- Coauthored research paper, "Medical imaging scintillators from glass-ceramics using mixed rare-earth halides" doi: 10.1016/j.optmat.2016.09.015
- Coauthored research paper, "Transitioning glass-ceramic scintillators for diagnostic x-ray imaging from the laboratory to commercial scale" doi: 10.1117/12.2249178

Binergy Scientific - Intern *May 2016-August 2016*

- Made and tested lithium ion batteries for the US Navy (ITAR regulated)
- Worked in a glove box to mass and press powder mixtures into solid battery component pellets
- Used potentiostats to compare rates of discharge of batteries made with different materials

Volunteering Experience

Regional Science Olympiad Division C at Georgia Tech

- Volunteered as an event helper for the Write-It, Do-It event *March 2016*
- Volunteered as an event helper for the Materials Science event *Feb 2017*

Step Into STEM *Oct 2017*

- Helped run STEM outreach event for K-12 students

Projects

ChemFlow Vertically Integrated Projects Team *January 2018 - present*

- Designing, building, testing, and evaluating prototypes of flow reactors for targeted chemical processes
- Using UV-vis and FTIR spectroscopies for in-flow analysis
- Transferring batch reactions to flow reactors and comparing reaction kinetics

Skills and Activities

Laboratory skills/equipment: Multi-prep, X-ray diffraction, UV-vis spectroscopy, optical microscopy, gas chromatography, photoluminescence spectroscopy, NMR, FTIR, liquid chromatography, fluorescence spectroscopy, laser-induced breakdown spectroscopy, scanning electron microscopy, colorimetry, fractional distillation, hydraulic press, ImageJ, potentiostat, thin layer chromatography, calorimetry, titration, flame testing, mass spectrometry
Programming: basic proficiency in MATLAB, Java, and Python; experience with Ubuntu and Windows
Spoken languages: English - native, Spanish - proficient
Activities: Student Affiliates of the American Chemical Society, Molecular Gastronomists at GT