

Jessica Roe

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Education

University of San Diego - San Diego, CA

September 2013-May 2017

Bachelors of Arts: Biology & Spanish Double Major

Minor: Chemistry

Relevant Coursework: General Chemistry & Labs (I & II), Organic Chemistry & Labs (I & II), Biochemistry, Research Methods, Cell Physiology & Lab, Immunology & Lab, Microbiology & Lab, Global Change Biology

Experience

ENC STEM - Eastern North Carolina

March 2019 - July 2019

Master Science Instructor

- Led the creation of dynamic and engaging curriculum for 50 high school students
- Taught a two-week Neurobiology course in Northampton County
- Co-taught and lesson planned with another instructor for an extension program at the NC School of Science and Math on Addiction and the Brain

Teach For America Corps Member - Eastern North Carolina

June 2017 - May 2019

High School Science Teacher (Weldon STEM High School Career Academies)

- Accepted into a highly-selective (12% acceptance rate) program to teach and lead in Eastern North Carolina
 - Courses Taught: Biology, Chemistry Honors, Earth/Environmental Science, Physical Science
- Provided engaging lessons for ~200 students and adhered to End-of-Course and NC Final standards through data-driven instruction (1 of 2 teachers to exceed growth schoolwide in 2018)
- Participated in school leadership and student development via involvement in the School Improvement Team, the Positive Behavior Intervention in Schools (PBIS) Team, and the Club Committee
- Engaged in a full schedule of professional development activities, including seminars in instructional planning, leadership opportunities within communities, and laboratory techniques
- **Assistant Softball Coach** (2018 & 2019 Seasons)

The Scripps Research Institute - La Jolla, CA

2015 & 2016 Summers

Felding Lab Intern in Molecular and Experimental Medicine

- Ran biochemical experiments such as Proliferation Assays, Crystal Violet Assays, Immunofluorescence, Wound Scratch Assays, and Soft Agar Colony Formation Assays; analyzed data using appropriate software.
- Tested the efficacy of potential chemotherapies for inhibition of cell proliferation in breast cancer cell lines.
- Presented data and experiments to both the lab group and breast cancer support groups while working under the supervision of Post-doc Celine Loriot and Principal Investigator Dr. Brunie Felding.

Community/Organizational Involvement

Community Involvement: Roanoke Valley Youth Soccer Association Volunteer Travel Soccer Coach (2018), ACCESS Plaza Comunitaria & Familia Indigena Volunteer Tutor (2014-2016)

USD Campus Involvement: Phi Delta Epsilon Medical Fraternity Vice President of Programming (2016), Secretary/Risk Manager (2015), Member (2013-2017); General Manager Women's Club Soccer Team (2015- 2017), Risk Manager (2014), Player (2013-2017)

Professional & Technical Skills

Languages: English - Speaking, Reading, Writing; Spanish - Proficiency in Speaking, Reading, Writing

Laboratory Skills: Familiarity with Spectrophotometry, Titration, Acid-Base Extractions, Melting Point Analysis, NMR Spectroscopy, Mass Spectrometry, IR Spectroscopy, PCR, Gel Electrophoresis, Aseptic Technique, Cell Culture, and Dilutions

Professional Skills: Google Suite, Microsoft Office Suite, ChemDraw