

Nicholas Totagrande

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SKILLS & TECHNIQUES

Chemistry: Gravity and Vacuum Filtrations, Decantation, Titration, Uv-Vis Spectroscopy, Separatory, Infrared Spectroscopy, H NMR, C NMR, Mass Spectroscopy.

Biology: Immunohistochemistry, Fluorescent Staining and Microscopy, Gel Electrophoresis, PCR, Laser-Confocal Microscopy, Light Microscopy, Vertebrate dissection techniques, Micropipetting, PEG embedding, Immunoprecipitation, SDS-PAGE.

RESEARCH EXPERIENCE

Independent Research, Biology, University of San Diego **June 2014 - Present**

- Designed independent research project to investigate muscle development in juvenile yellowtail tuna. Data analysis is currently underway. Anticipated project completion Fall 2016.
- Utilized fluorescent microscopy (immunocytochemistry technique employed along with vital dyes: anti-Hif, DAPI, MyoD, anti-laminin, Pax3, and Pax7) with confocal microscopy experience to track nuclear migration in muscle cells.

JOB EXPERIENCE

Medical Research Analyst, Juno Biomedical, Inc. **August 2016 - Present**

- Enhancing materials developed during summer internship related to stroke patient research.

Medical Research Analyst Intern, Juno Biomedical, Inc. **June 2016 - August 2016**

- Researched industry studies related to stroke patients. Created materials explaining stroke research to investors, including the pathology of stroke, the regulatory pathways involved, and competing products on the market.
- Gathered, and organized, data by utilizing and interpreting medical journals and articles.
- Analyzed and interpreted market study research data. Transferred data into intelligible and accessible forms for a variety of audiences.
- Collaborated on projects with the Juno Biomedical team. Communicated project status on a regular basis.
- Materials utilized by CEO to support presentations to key stakeholders, investors, as well as neurologists and neurosurgeons.

TEACHING EXPERIENCE

Teaching Assistant, Organic Chemistry, USD **January 2015 - May 2016**

- Provide subject matter expertise to first and second semester organic chemistry students during weekly lab sessions.

Student Success Coach, USD Health & Wellness Promotion **January 2016 - May 2016**

- Educate and mentor students who are having difficulties adapting to college life.
- Conduct both supervised and independent sessions no longer than 30 minutes.

LEADERSHIP EXPERIENCE

Pi Kappa Phi Fraternity, USD **January 2015 – present**
President

- Lead and manage an organization of 50 members; coordinate with other fraternity and university organizations.
- Oversee all Chapter functions including the planning of social, philanthropic and alumni events as well as leading weekly executive and chapter meetings. Manage \$50,000 annual budget.