## Sean Michael Quinn

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Areas of Specialty	<ul> <li>Biochemistry and cellular biology</li> <li>Stopped-flow kinetics</li> <li>TIRF microscopy</li> <li>Bacterial/mammalian cell culture</li> </ul>	
	Protein purification	
Education	Doctorate of Philosophy in Biochemistry and Biophysics, 3.73 Rensselaer Polytechnic Institute, Troy, New York	Aug. 2014 - Present
	Bachelor of Science in Biochemistry and Biophysics, 3.76 Rensselaer Polytechnic Institute, Troy, New York	May 2014
Experience	Rensselaer Polytechnic Institute, Troy, NY  Graduate Research Assistant	May 2015 - Present
	<ul> <li>Use kinetics and imaging approaches such as stopped-flow kinetics and TIRF microscopy to understand the kinesin-2 stepping cycle.</li> </ul>	
	<ul> <li>Use computational modeling programs such as MATLAB to further understand the stepping of heterodimeric kinesins</li> </ul>	
	Rensselaer Polytechnic Institute, Troy, NY Graduate Teaching Assistant	Sept. 2014 - May 2015
	<ul> <li>Planned and presented weekly lectures for introductory biology laboratories and cell biology sections.</li> </ul>	
	<ul> <li>Maintained regular office hours and provided timely student feedback on performance.</li> </ul>	
	Rensselaer Polytechnic Institute, Troy, NY	Jan. 2014 - May 2014
	<ul> <li>Volunteer Undergraduate Research Assistant</li> <li>Tracked the expression of osteoarthritic chondrocyte specific markers using western blots.</li> <li>Mentored another undergraduate lab member in wet lab</li> </ul>	
	techniques such as protein extraction and immunoblotting.  Eisai, Andover, MA  Drug Metabolism and Pharmacokinetics Intern	June 2013 - Aug. 2013
	<ul> <li>Conducted enzyme kinetic studies with human kidney and liver microsomes and recombinant FMOs.</li> <li>Used HPLC/MS/MS to quantify rates of a novel metabolite</li> </ul>	
	formation.  • Presented research findings to senior staff.	
	<ul> <li>School Specialty, Nashua, NH Temporary Seasonal Associate</li> <li>Prepared science kits for educational institutions across the country.</li> </ul>	July 2012 - Aug. 2012
Leadership & Activities	<ul> <li>Rensselaer High School Scholar Program, Troy, NY</li> <li>Currently a co-coordinator for the program.</li> <li>Currently help inform high school students about their labs and get them connected with their respective mentors.</li> </ul>	Sept. 2015-Present
	<ul> <li>RPI Calculus Bridge Program , Troy, NY</li> <li>Helped mentor students with confocal microscopes in the imaging of various microorganisms.</li> </ul>	July 2015-Present

	<ul> <li>Will be continuing my involvement in the program by serving as a mentor for first-year biochemistry students to promote their continued pursuit of STEM careers.</li> </ul>	
	<ul> <li>Albany Medical Center, Albany, NY</li> <li>Volunteered in the CT scan and nuclear medicine departments</li> <li>Transported patients to their respective waiting areas and shadowed and helped the technicians</li> </ul>	Sept. 2012 - Dec. 2012
	Rensselaer Polytechnic Institute Track & Cross Country, Troy,	2010-2014
	<ul> <li>Cross-country Team Captain</li> <li>Served as a mentor for elementary students in math and science</li> </ul>	Dec. 2010 – Jan. 2011
Presentations	E6887 N-hydroxylation as a probe reaction Andover, MA	Aug. 2013
Skills	• Proficient in use of Microsoft Word, Excel, and Power Point	
	Experienced with Total Internal Reflection Microscopy (TIRF)	
	<ul> <li>Adept in the use of AB SCIEX Triple Quadrupole 4500 mass spect software</li> </ul>	trometer and analysis
	• Proficient in the use of VectorNTI, Kaleidograph, and GraphPad analysis software	
	<ul> <li>Proficient in mammalian cell culture maintenance Excellent written and verbal communication skills on all platforms</li> </ul>	
	Highly organized and seek the completion of any project	