

Rajeev Pathapati
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Education

Rensselaer Polytechnic Institute	Enrollment: Fall 2014- Spring 2015
University of Texas at Dallas	Enrollment: Fall 2015 Expected Graduation: Fall 2018

Awards

Presidential Volunteer Award (Gold)	2010-2014
AP Scholar with Distinction	2013
IBM master the mainframe part 1 winner	2013
RPI Dean's List	2014-2015

Community Service

Stone Oak Methodist Hospital	303 hours	(2010-2014)
<ul style="list-style-type: none">• Front Desk (secretary-type responsibilities and assisting visitors)• Radiology• Transport of patients to different departments		
Banwolf Public Library	22 hours	(2010)
<ul style="list-style-type: none">• Shelving and sorting books		
WellMed Community Service	3.5 hours	(2011)
<ul style="list-style-type: none">• Set up kid's day at the park		
Madonna High School for the Deaf	28 hours	(2011)
<ul style="list-style-type: none">• Assisted throughout the school and served lunch in the cafeteria		
Manasa Devi Charitable Trust Old-age Home	63 hours	(2011)
<ul style="list-style-type: none">• Assisted the elderly with daily activities		
Indo American Youth Association	20 hours	(2010-2014)
<ul style="list-style-type: none">• Conducted several city events including cultural festivals		
Texas Indian Physicians Society Junior Volunteer Program	15 hours	(2011-2014)
<ul style="list-style-type: none">• Volunteered at the San Antonio Food Bank• Volunteered for the Titanium Rib Foundation		
Ronald McDonald House	2 hours	(2016)
<ul style="list-style-type: none">• Cleaning and Organizing		
Superior Hospice	40 hours	(2015-2016)
<ul style="list-style-type: none">• Clerical Duties• Assisting with rounds at patient homes		
Dallas Presbyterian Hospital		
<ul style="list-style-type: none">• ICU patient monitoring		
	40 hours	(2016)

Extracurricular Activities

Molding Doctors	2015-2016
Health Occupations Students of America	2010-present
Clinical Rotations at Methodist Transplant and Specialty	2013-2014
Research at University of Texas Health Science Center San Antonio*	2013-2015

Shadowing physicians at North East Methodist Hospital
Powerlifting club

2011-present
2016

Skills

Programming

- Java

Assorted Health Related Skills (Health Care Provider CPR certification, etc.)

Lab skills (Cell culture, Western Blotting, Gel casting, electrophoresis, immunohistochemistry, cell proliferation assays)

Bilingual

- English
- Telugu

Knowledge in Adobe CS5

- Photoshop
- Illustrator
- Sound booth
- Premiere Pro
- Flash
- After Effects

Knowledge in Microsoft Office Products

- Word
- Power Point
- Publisher
- Excel

*Research:

I started researching in June 2013 at the University of Texas Health Science Center at San Antonio under Dr. Ratna K Vadlamudi. I went to the lab throughout the summer and learned various procedures such as gel electrophoresis and the Western Blot. I also learned how to do cell culture work such as cell plating, seeding, splitting, freezing, and thawing. Learning these procedures in the summer has prepared me for science fair and scientific research and design. I will be primarily researching glioblastoma, or glioma. This is the most common form of brain cancer. This cancer arises from the glial cells of the brain. Glial cells are the supporting cells that are not the neurons such as the astrocytes. Gliomas are not as common as other cancers; however, they are very deadly and victims have a life expectancy of 12 months after they are diagnosed. The prevalence of glioma in premenopausal women is lower than that in postmenopausal women and men. Therefore it is speculated that estrogen related proteins or drugs may have glioma suppressing properties. Preliminary tests of certain drugs such as liquiritigenin and S-equol look promising. They have significantly reduced the levels of cell proliferation of glioma cells both in incubated cell lines as well as in human glioma cells grown subcutaneously in mice.

I also had the opportunity to work with other research projects involving breast cancer, ovarian cancer, melanoma, as well as strokes.