

Name : Vaibhav Patidar ,
 Email : vaibhav305iitb@gmail.com, Mobile number : 9920136867

Education : Indian Institute of Technology ,Bombay (2011-2015)

SCHOLASTIC ACHIEVEMENT

- Qualified for UPSC mains examination in 2016 and 2017 with mathematics optional
- Awarded child scientist award and certificate of merit by ex. President Dr. A.P.J. Abdul Kalam in 17th national children science congress
- Felicitated at the Chief Minister's office for excellence academic performance in the year 2009-10 in 12th grade higher secondary examination

TEACHING EXPERIENCE

- Completed the syllabus of gate for mathematics at Gate Academy Indore in 60 hours
- Completed syllabus of IIT JEE mathematics at Rao IIT Academy Mumbai in 6 months

RESEARCH PAPER

Night Time Winter Anomaly effect (NWA) in the Cosmic Radio occultation data *International journal of atmosphere and terrestrial physics* | by Vaibhav Patidar, Dr. Norbert Jakowski

- Observed seasonal variation of peak electron density in Cosmic radio occultation data
- Validated the visibility of NWA effect in northern American and southern Asian sectors

PROFESSIONAL EXPERIENCE

German Aerospace Centre,DLR Berlin

[May-July 2014]

Topic: *Radio Occultation Data analysis of on board Satellites* | Guide: Dr. Nobert Jakowski

- Witnessed Night time winter anomaly effect in analysis of Local time variation of parameters
- Performed intercomparison study between radio occultation parameters by calculating **standard deviation** and Analysed the position of **northern crest** and southern crest region using python
- Calculated and analysed local time variation of critical ratio using Nmf2 in crest region
- Validated Night time winter anomaly effect in radio occultation data using probability density function and aurora effect in E layer dominated ionosphere using code in python

Defence Research and Developmental Organization,DRDO

May-July'2013

Topic: *Conceptual Design of Small Unmanned Airship Envelope*

- Developed a mathematical model to calculate position of **GPS satellites** using MATLAB
- Calculated receiver co-ordinates using satellites' co-ordinates & frequency in MATLAB
- Calculated the number and position of visible satellites for a calculated location of receiver

INTER-IIT	<ul style="list-style-type: none"> -Secured 1stposition in 4*400m(reserved) race at 49th INTER IIT SPORTS MEET. -Participated In 800 meter, 1500 meter and 5000 meter event at 48thINTER IIT sports meet -Member of IIT BOMBAY Athletics team for 3 consecutive years
Awards	- Awarded Hostel Sport colour'13 and Hostel sport Special Mention'12
Inter Hostel	<ul style="list-style-type: none"> -Secured 1st and 2ndposition in 800m for two consecutive year in Inter-Hostel GC -Secured 2ndPosition in team Triathlon among 36 team and 2nd position in single Biathlon. -4th position in 2012 IIT Bombay Crosse-Country GC of 6.15 km among 600 participat