

# Bhoomika Ojha

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## Education

<b>IIT Guwahati</b> , B.Tech, Chemical Science and Technology	CGPA : 8.94/10	2016 - Ongoing	<i>Guwahati, India</i>
<b>AECS Magnolia</b> , Senior Secondary, CBSE	95.2%	2014 - 2016	<i>Bangalore, India</i>
<b>National Hill View Public School</b> , High School, CBSE	CGPA : 10/10	2002 - 2014	<i>Bangalore, India</i>

## Work Experience

### Goldman Sachs

SUMMER ANALYST

*Bangalore, India*

*May 2019 - July 2019*

Worked as a strategist with the FICC Divisional Strats team of the securities division.

- Implemented a strategy that reduced the firm's initial margin requirements.
- Enhanced an auto-booking tool which was used to realize a \$10M saving in bilateral risk in a single optimization cycle.
- Received a Pre-Placement Offer for commendable contributions across project engagements.

### Acalvio Technologies

SUMMER INTERN

*Bangalore, India*

*May 2018 - July 2018*

Worked as a member of technical staff.

- Studied a product aimed at securing information within the perimeter of a target network.
- Simulated various cyber-attacks and exposed vulnerabilities to be fixed in the product.

## Projects

### Bachelor's Thesis

*IIT Guwahati, India*

WITH PROF. ARUN CHATTOPADHYAY, DEPARTMENT OF CHEMISTRY

*Jul 2019 - Present*

Working towards probing and detecting extremely small concentrations of Raman active moieties by enhancing their Raman signals using SERS (Surface Enhanced Raman Spectroscopy) techniques.

### Molecular Dynamics Simulation

*IIT Guwahati, India*

WITH PROF. ADITYA PANDA, DEPARTMENT OF CHEMISTRY

*Jan 2018 - July 2018*

Worked towards eliminating the need to carry out a reaction in a laboratory by making it possible to determine the interaction between reactants using computers.

- Executed the ab initio method of molecular dynamics to locate a molecule in a force field with progressing time, using Fortran.
- Worked on developing a visual simulation of a multi-molecule reaction using Gaussian 09.

## Honors and Awards

2019	<b>Institute Merit Scholarship</b> , Finished as the top performer from my discipline, in the academic year '18-'19	<i>IIT Guwahati</i>
2018	<b>Women Emerging in Finance</b> , Finalist, invited to the on-site event and subsequent conference	<i>Goldman Sachs</i>
2015	<b>Indian National Olympiads</b> , Finalist, ranked 12th in Astronomy and 16th in Physics, in Karnataka	<i>IAPT with TIFR</i>
2013	<b>Indian National Mathematical Olympiad</b> , Finalist, ranked 16th in Karnataka	<i>ISI Bangalore</i>
2012	<b>National Talent Search Examination</b> , Among the top 1,000 students in India to be awarded the scholarship	<i>NCERT</i>
2016	<b>CBSE Senior Secondary Examinations</b> , Graduated as school topper in the science stream	<i>AECS Magnolia</i>

## Key Courses

<b>Mathematical</b>	Linear Algebra, Advanced Calculus, Numerical Methods in Engineering, Computation in Natural Sciences
<b>Departmental</b>	Quantum Chemistry, Petroleum and Petrochemicals, Industrial Chemistry, Nano-scale Science and Technology
<b>Interdisciplinary</b>	Medicinal Chemistry, Fluid Mechanics, Thermodynamics, Heat and Mass Transfer

## Positions of Responsibility

Jun 2019 - Present	<b>Editor in Chief</b> , The Excited State, the departmental magazine	<i>IIT Guwahati</i>
Oct 2019 - Present	<b>Content Creator</b> , TEDxIITGuwahati	<i>IIT Guwahati</i>
Feb 2018 - May 2018	<b>Student Representative</b> , Codess India Initiative	<i>Microsoft IDC</i>
Nov 2016 - Feb 2017	<b>Co-ordinator of Delegate Affairs</b> , IIT Guwahati Model United Nations	<i>IIT Guwahati</i>
Oct 2016 - Aug 2017	<b>Member, Organizing Committee</b> , Industrial Conclave, Techniche	<i>IIT Guwahati</i>

## Extracurriculars

<b>Sports</b>	Represented the institute at the 52nd Inter IIT sports meet as a part of the basketball team
<b>Music</b>	Vocals and Acoustic Guitar for Octaves, the music club of IIT Guwahati
<b>Interests</b>	Contributed to events conducted by the astronomy and movie clubs of IIT Guwahati. Puzzle enthusiast.