

# Aditi Chaubey

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Mumbai, India

## Education

### **M.Sc (Inorganic Chemistry)**

*The University of Mumbai*

CGPA: 7.97

**2019-2021**

*Mumbai*

### **B.Sc (Chemistry)**

*The D.G. Ruparel College*

CGPA: 9.26

**2016-2019**

*Mumbai*

### **HSC**

*St. Xavier's High School and Junior College*

73.69%

**2016**

*Mumbai*

### **SSC**

*St. Xavier's High School and Junior College*

87.60%

**2014**

*Mumbai*

## Research and Work experience

- An overview of applications of fluorescent BODIPY dyes for detection of various analytes** **2020-2021**

The master's thesis was a literature review compiling the findings of various researchers in the above topics. Key skills gained were searching across various platforms, effective reading, organizing data, taking notes, writing research reports and presentation skills.

- Synthesis of resin made from recycled PET bottles and embedded with silver nanoparticles** **2017-2018**

Graduate project aimed at embedding silver nanoparticles in a resin synthesized from PET bottles. Key skills learned included searching research papers, setting up experiments, calculations, organizing data and learning about various characterization techniques such as IR, UV, Mass spectroscopies.

- Synthesis of resin from PET bottles** **2016-2017**

Graduate project that attempted to synthesize resin from PET bottles that could pave a way for effective recycling and obtain a useful product. This was the first exposure to instrumental and characterization techniques.

## Teaching experience

### **Assistant Professor (Chemistry)**

*V.P.M's R.Z. Shah College*

**July 2022- present**

*Mumbai*

- Teaching, providing demonstrations, conducting experiments and investigations, and supervising undergraduate students.
- Assisting with various departmental duties and providing academic support to Professors and other staff.
- Training and mentoring undergraduate students.

- Providing Professors and Department Heads with feedback on student progress.

## **Chemistry Tutor**

**2018-2022**

### *Coaching facilities*

*Mumbai*

- Tutoring high school students in Chemistry, helping them understand concepts in addition to making presentations and teaching materials.
- Created mock tests, conducted and assessed 50+ tests, created performance reports and coordinated with parents and guardians to discuss progress.
- Created high quality lesson plans and strategies to help students.

## **Skills**

- Scientific : HPLC, HP-TLC chromatographic techniques, UV-Vis, IR, NMR spectroscopies, Titrations
- Computer skills: MS Office (Powerpoint, Word, Excel, Outlook, Teams, etc)
- Applications: Chemdraw, Chems sketch
- Computational: Python (beginner)
- Languages: English, Hindi, Marathi (Fluent)  
French (Beginner)
- Others: Cooperation, Passion for teaching, Problem solving and analytical thinking, Laboratory practices

## **Awards**

- First rank in Chemistry in TYB.Sc **2019**
- First rank in Zoology in SYB.Sc **2018**
- First rank in Zoology in FYB.Sc **2017**

## **Activities and conferences**

- Completed training on CAMAG HP-TLC system at India- specific HPTLC Applications Research Lab at Anchrom Labs, India (February 2021)
- Learning Python to gain computational skills.
- Presented our work (poster and presentation) *Synthesis of resin made from recycled PET bottles and embedded with silver nanoparticles* at the University of Mumbai's Research convention AVISHKAR in 2018.
- Attended Spectroscopy workshop under the STAR college scheme (September 2018)
- Presented our work (poster and presentation) *Synthesis of resin from PET bottles* at the University of Mumbai's Research convention AVISHKAR in 2017.

## **Extra-Curricular Activities**

- Volunteer with Greenline Organization for World Environment week 2022
- Volunteer at Praan Foundation for mental health awareness and reachout (Oct 2021- present)
- Active volunteer with WWF (World Wildlife Fund) under the 'Ek Prithvi' initiative in an endeavour to teach environmental science and awareness to children of municipal schools through fun activities and games. (Aug2017-Mar 2018)