

# Sushma Kumar

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## EDUCATION

### **CALSTATE University, Los Angeles (CSULA)**

*MS Chemistry*

- Graduated in July 2017

### **CCS University Meerut, India**

*Bachelor of Education (B.Ed),*

- Graduated in May 2005

### **CSJM University Kanpur, India**

*Masters of Science,*

- Graduated in May 2002

*Bachelor of Science,*

- Graduated in May 2000

## PROJECT WORK

Sep 2015 – July 2017

*Dr. Tunstad Research Group*

*Research Advisor – Dr. Linda Tunstad (Professor of Chemistry, Program Director (Bridges to the Future), Associate Director (MORE Program))*

- Worked on project titled Heterodimer Molecular Capsules I: Synthesis and Characterization via Temperature, pH, or Solvent composition.
- Worked as assistant for project - Biscavitand Model Systems for Surface Recognition and Self-Assembling Oligomers

## LABORATORY WORK

- *Laboratory skills:* Organic synthesis, Titration, Crystallization, Purification, Distillation, Separation, Column Chromatography (Gravity Column Chromatography, Flash Column Chromatography), Thin layer Chromatography (TLC), Extraction, Dilutions.
- *Instrumental skills* such as the operation and the interpretation of data from, Nuclear Magnetic Resonance (NMR).
- *Computer Software* - Gaussian, Chem3D, Chemdraw Professional, Mestrenova, Bruker.

## OTHER TEACHING EXPERIENCE

### **CSJM UNIVERSITY KANPUR (FEROZ GANDHI COLLEGE)**

Assistant Teacher, Aug 2002 – April 2003

- Taught introductory and undergraduate classes for Chemistry.
- Assisted professors writing course material, homework assignments and handouts.
- Demonstrated a continued commitment to undergraduate teaching through full participation in the college community.