

# Sanjana Durve

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## LINKS

[Linkedin : www.linkedin.com/in/sanjana-durve](https://www.linkedin.com/in/sanjana-durve)

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## SUMMARY

Graduate Student working towards my PhD in Pharmaceutical Sciences -Industrial Pharmacy. I have 3 years of work experience in the Pharmaceutical Industry as a Research Scientist. My research interests are in the area of formulation development ( Nanotechnology: Nanoemulsions, NLC's, Nano-particles, Liposomes ) for inhalation, and oral routes. Product optimization (DOE) and In-vitro cell culture studies.

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## EDUCATION

Aug 2023 — May 2027	PhD in Pharmaceutical Sciences, St John's University	Jamaica
Aug 2018 — Aug 2020	Master's in Pharmaceutical Sciences, University of Mississippi	Oxford, Mississippi
Jun 2013 — May 2017	Bachelor's of Pharmacy, University of Mumbai	Navi Mumbai, Maharashtra

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## RESEARCH EXPERIENCE

Aug 2019 — Jul 2020	<b>Graduate Research Assistant</b>	Oxford, Mississippi
	<ul style="list-style-type: none"><li>• Following GLP guidelines and maintaining laboratory notebooks on the supporting projects.</li><li>• Hands on experience in formulation (SLN, NLC, Nano-emulsion and Ocular films) and development of drugs targeted for ocular diseases.</li><li>• Performing literature review and experimental data analysis using MS Excel.</li><li>• Adequately skilled in performing assays using HPLC and UV analysis, Particle size ( Malvern zetasizer), pH, viscosity analysis, DSC and FTIR analysis (solid/liquid characterization)</li></ul>	
Mar 2019 — Mar 2020	<b>Student Worker</b>	Oxford, Mississippi
	<p>Managing tissue culture of various marijuana varieties. ( Federally funded project) following GLP guidelines.</p> <ul style="list-style-type: none"><li>• Cutting, Collection and cleaning of Ex-plants (sterilization process).</li><li>• Preparation and autoclave of tissue culture media, tools and jars.</li><li>• Inoculation of different marijuana varieties in sterile conditions to maintain the germplasm of different varieties.</li><li>• Managing the inventory and raw material supplies for the culture lab.</li></ul>	

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## PROFESSIONAL EXPERIENCE

Sep 2022 — Present	<b>Senior Scientist , PPD part of Thermo Fisher Scientific providing services to GSK</b>	Collegeville, Pennsylvania
	<ul style="list-style-type: none"><li>• Supporting the pre- and post development candidates ( steriles, small molecules) by screening and developing robust dosage forms like nano-suspensions, solutions, micro-suspensions and lyophiles for Parenteral use.</li><li>• Assisting in the manufacturing of products for stability using Lyophilization techniques/ wet bead milling techniques.</li><li>• Assisting clinical trails and process development studies. Working with the matrix technical team to contribute on the manufacturing batch record.</li><li>• Recognizing problems with the equipment's and troubleshooting the experiments. Working in the GMP\GLP environment when required and working on equipment's based on the GxP protocols.</li><li>• Performing data management , recording data based on the department guidelines in the lab ware software (Tabulating and graphical results).</li><li>• Preparing routine oral and written results of the project work . Giving Presentations to deliver the work in routine team meetings.</li><li>• Operating individually and in a team environment seeking help from other scientists and supervisor during problem solving. Working with the other departments like manufacturing , analytical and material science to meet the project deliverables.</li></ul>	

Mar 2021 — Sep 2022

### Formulation Scientist , Pipingrock Health Products

Farmingdale, New York

- Formulation development and related process's of various natural and chemical compounds mainly as oral solid dosage form's (Tablets and capsules)with their cost analysis serving to the marketing and sales needs.
- Scaling up manufacturing for R&D pilots, working with operations to troubleshoot technical, formulation and processing issues during product development.
- Reviewing batch records and giving critical inputs during the process. Working on Change Controls and Material Review Documents.
- Working on the new formula and product development project with proper documentation processes.
- Protocols performed according to established SOP'S, following the cGMP and cGLP regulations. (FDA, OSHA guidelines)
- Work with the purchasing team on sourcing new raw materials/existing raw materials for the feasibility of the formulations.
- Working on multiple projects, maintaining the project information, and prioritizing the projects to achieve the project deadlines.

Oct 2020 — Feb 2021

### Quality Control Analyst , Novitium Pharma LLC

East Windsor, New Jersey

- Daily Calibration of laboratory equipment ( Weighing Balance, pH meter, Density met
- Documentation ( lab notebooks) and preparation of analytical reports of daily lab work and data compilation.
- Chemical testing of raw materials, bulk products, Packaging material and API utilizing methods of wet chemistry with respect to USP-NF (LOD, ROI Assay, identification testing, Heavy metals) and qualitative analysis using Perkin Elmer FTIR.
- Testing of In-process and finished product (pH, Density, Viscosity, moisture analysis using Karl Fishcher, Dissolution using HPLC, UV-Vis using Winlab Software, Content Uniformity, Blend Uniformity, Assay, Impurity content, Preservative Content by HPLC using Empower 3 software, Particle Size Analysis using Malvern analyzer and Gilson sieve).
- Cross-functional collaboration with formulation and other developmental analytical teams.

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#### CERTIFICATION AND AWARDS

Sep 2016 — Present

#### Awards

Mumbai

National level poster presentation.

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#### SKILLS

Adaptability

DSC and TGA

Ability to Work in a Team

pH meter, Viscometer.

Formulation Development  
(Tablets, capsules, suspensions,  
liquids, NLC, Nano-emulsions,  
Films )

UV spectroscopy (Shimadzu,  
Perkin Elmer)

Lyophilization technique (Small  
molecules: Parenterals)

SPSS Statistics

Scale-up and manufacturing  
(GMP)

Microsoft Office

High Performance Liquid  
Chromatography (HPLC)  
(Empower 3)

Communication and  
Collaboration Skills

Particle Size Analysis (Malvern)

Effective Project Management

FTIR (Perkin Elmer)

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#### EXTRA-CURRICULAR ACTIVITIES

Aug 2018 — Aug 2020

Active participation in events organized by (AAPS) student  
chapter., University of Mississippi

Oxford, MS

Oct 2014 — Jan 2017

Indian Pharmaceutical Association (IPA), University of Mumbai

Navi Mumbai

- Poster Presentation and volunteering experience for HIV and Hepatitis campaign.