Laxmikant (LP) Pathade

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Work Experience (Teaching & Research)

Saint Edward's School: Upper School Chemistry Teacher **2018-present**

- Taught on-level, honors, and AP chemistry classes (∼70 students annually) for the past six years. I manage a large chemistry classroom & chemical storage spaces, design coursework and co-curricular materials.
- Created opportunities for students interested in STEM research. During my position as the school-wide science fair coordinator (2021 onwards), the Florida State Science & Engineering Fair selected over 20 student projects out of ∼60 regional fair participants. I also mentored middle & lower school science projects.
- Taught a half-credit science research class that covered variety of advanced research topics and practical approaches to research in college. Mentored students over the summers for the Advanced Studies Project, a school-sponsored program. Advised several co-curricular student clubs, including obviously, the chemistry club.
- Named the *Richardson Family Foundation Chair for Distinguished Teaching* during the 2023 commencement. This two-year endowed position is the highest faculty honor at the school and is awarded to a faculty who demonstrates the highest standard of excellence in teaching. I was also awarded the *Morrison Waldrop Research Stipend* for curriculum development during the summers of 2019 & 2022.
- Actively participated in extracurriculars, athletics, and student life. Voted the most likely to attend a sporting event in the school yearbook. Honored by the football team with a team jersey during the annual *Unity Day*.

Syracuse University: Graduate Teaching/Research Assistant **2013-2018**

- Taught general/honors chemistry labs & held recitations for almost all five years of graduate school. Developed new lab modules to introduce advanced materials chemistry topics such as synthesis & properties of nanoparticles. Topics include "*Synthesis of Optically Active Perovskite ($CsPbX_3$) nanocrystals*", "*Demonstration of Transmission Electron Microscope*", & "*Solid State Modeling & X-ray Diffraction*.
- Supervised undergraduate trainees, *NSF-REU* researchers, & junior graduate students. Held position as a graduate X-ray facility admin for four years, where I was responsible for training new users and minor facility maintanance.
- Received Graduate Teaching Assistant Mentor Award from the Syracuse University Graduate School in 2016 for outstanding mentorship service to the incoming teaching assistants in STEM fields. Received Conference Travel Award from the Syracuse University Department of Chemistry in 2015 & 2016.
- Research: Investigated synthetic design of transition metal core/shell type *"stainless"* nanoparticles (NPs) that exhibited *hollow internal microstructures* and exploited our findings to improve corrosion resistance in steel alloys. This work resulted in several peer-reviewed journal articles, co-authored patents, and presentations in regional and national conferences.

Education

Syracuse University **2013-2018**
Ph.D. in *Materials Chemistry* with Prof. Mathew M. Maye
Thesis: Design and Synthesis of Stainless-Steel Nanoparticles

Institute of Chemical Technology, Mumbai (formerly UDCT) **2009-2013**
Bachelors of Technology in Chemical Engineering

JNV Boarding Schools, India **2002-2009**
Full-Ride Scholarship from grades 6 through 12 (Govt. of India)