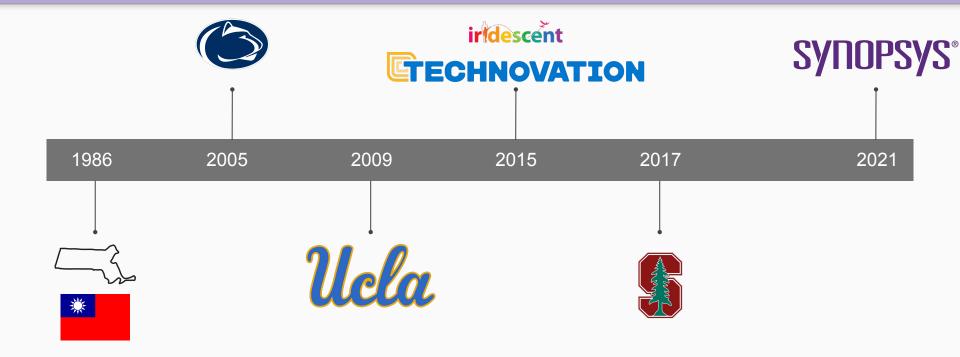
Academia & Industry & Nonprofits, Oh my!

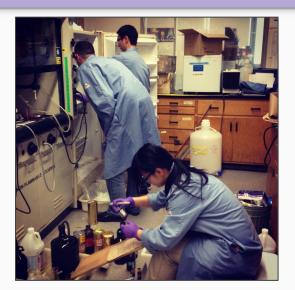
Angela Hwang, Ph.D.

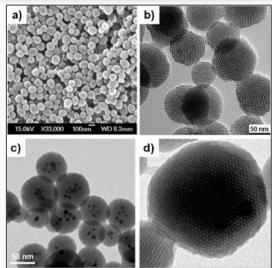
Timeline



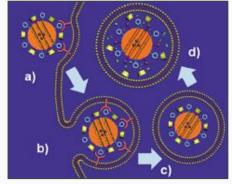


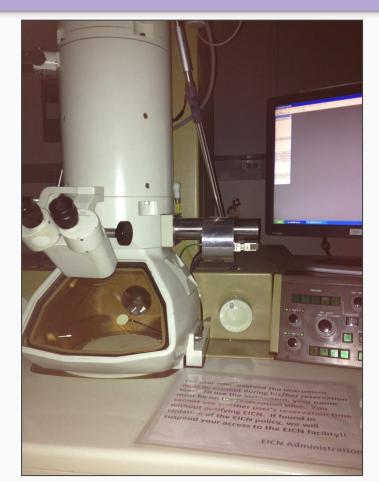
Zink Lab - mesoporous silica nanoparticles for drug delivery











Outreach, Extracurriculars, and Graduation













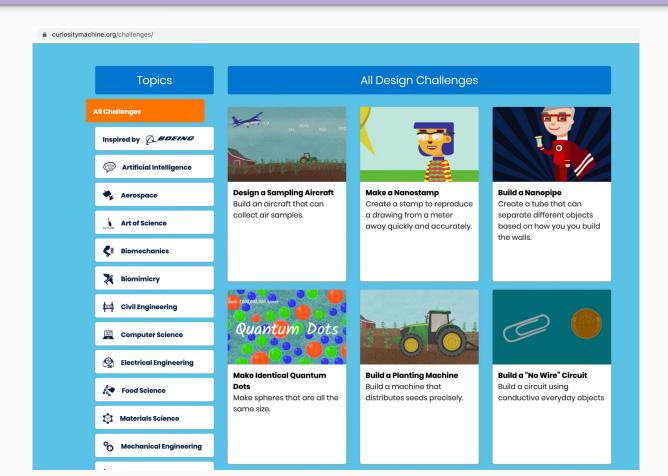
- Project management
- Problem solving & troubleshooting
- Time management
- Self management
- Self efficacy
- Grant writing process (NSF, DTRA)



Technovation (formerly known as Iridescent)



Platform



USC, Family Science, Professional Development













Interviewing & making videos with creative teams





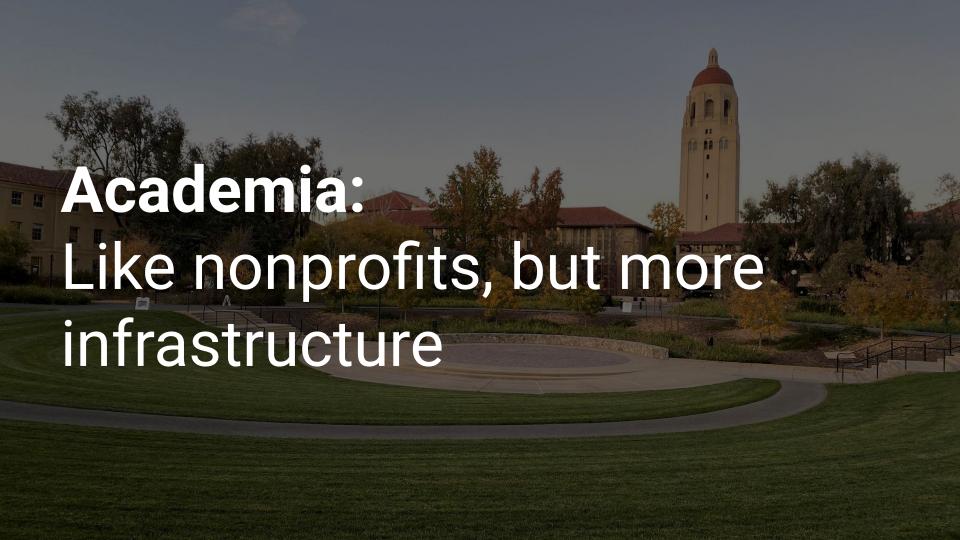








- Program management
- Adapting & multiple hats
- Public speaking & communication
- Work travel & TSA precheck
- End to end video production & animation
- Working with different types of people
- Grants & proposals, collaborations



National Nanotechnology Coordinated Infrastructure - NSF Funded

NNCI Sites

Center for Nanoscale Systems (CNS)

Cornell Nanoscale Science and Technology Facility (CNF)

Kentucky Multi-Scale Manufacturing and Nano Integration Node (KY Multiscale)

Mid-Atlantic Nanotechnology Hub (MANTH)

Midwest Nanotechnology Infrastructure Corridor (MiNIC)

Montana Nanotechnology Facility (MONT)

nano@stanford

Nanotechnology Collaborative Infrastructure Southwest (NCI-SW)

Nebraska Nanoscale Facility (NNF)

Northwest Nanotechnology Infrastructure (NNI)

Research Triangle Nanotechnology Network (RTNN)

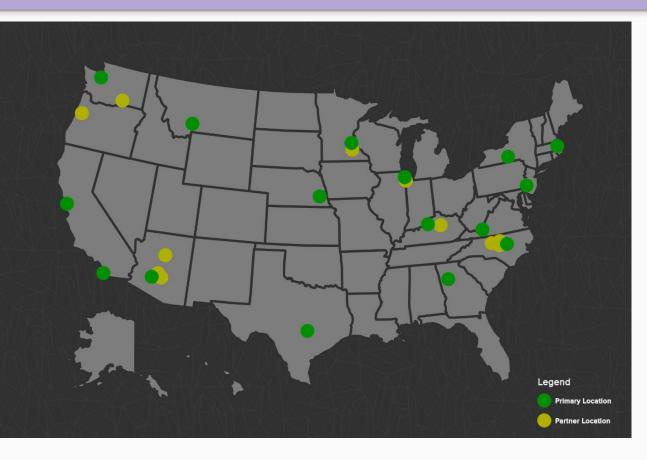
San Diego Nanotechnology Infrastructure (SDNI)

Soft and Hybrid Nanotechnology Experimental (SHyNE) Resource

Southeastern Nanotechnology Infrastructure Corridor (SENIC)

Texas Nanofabrication Facility (TNF)

Virginia Tech National Center for Earth and Environmental Nanotechnology Infrastructure (NanoEarth)



Education

Stanford ONLINE

Nano @ Stanford

This resource contains materials to prepare researchers to become effective users of the nano@stanford nanofabrication and nanocharacterization tools and facilities, as well as to be useful to anyone wanting to learn about nanofabrication.





Estimated 10 weeks 5 hours per week



Self-paced

Progress at your own speed



Free Access to course at no cost



There is one session available:

5,471 already enrolled! After a course session ends, it will be archive

Starts Nov 4

☐ I would like to receive email from StanfordOnline and learn about other offe



Nanoscience Summer Institute for Middle School Teachers (NanoSIMST)

Content Deepening Courses

APPLY NOW!



The nanofacilities at Stanford (nano@stanford) are holding a four day Nanoscience Summer Institute for Middle School Teachers (NanoSIMST). See what we did in 2018.

> 10am - 6pm Stanford University

Selected teachers will learn the underlying physical concepts in nanotechnology and nanoscience in simple terms. This unique learning experience can enrich your current courses through both deepening content understanding and instructional practices. Please keep in mind, housing stipends are not provided.

Date and time

June 24, 2019 - June 27, 2019

Location

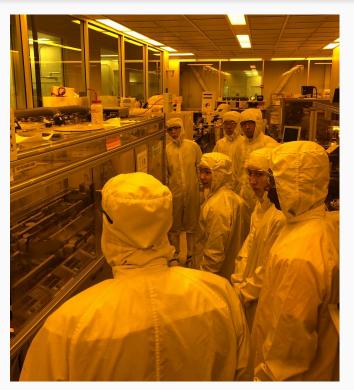
Stanford University

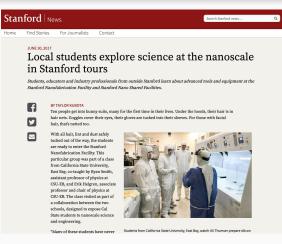
Cost

Receive stipend upon completion of workshop (\$400) and classroom implementation (\$200)



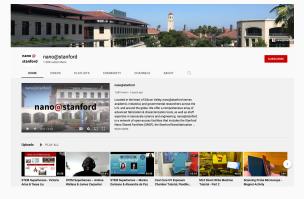
Outreach











- People management & influence
- Leadership skills
- Working with academics
- University operations & politics
- NSF grant process



Academic Partnerships & University Programs



Synopsys is an American electronic design automation company that focuses on silicon design and verification, silicon intellectual property and software security and quality.



SILICON DESIGN & VERIFICATION SILICON IP SOFTWARE INTEGRITY ABOUT US

Community ▼

Academic Programs

Academic Programs

Synopsys academic programs provide qualified university and research institutions access to the software tools and technology needed to prepare highly skilled graduates who can meet difficult challenges ranging from electronic and optical design to static analysis for software quality and security. Our technology enables future hardware and software engineers to deliver Smart, Secure Everything - from Silicon to Software.



Electronic Design

EDA software for digital, custom and analog/mixed-signal design, as well as prototyping, FPGA and TCAD.

Learn More



Optical Design

Optical design software for imaging, illumination, automotive lighting, and photonic and optical network design.

Learn More



Static Analysis

Static analysis software for developing and testing software code for quality and security.

Learn More

\$3+ billion

15.000+

employees

vears in business

annual revenue

So far...

- Corporate lingo is an entirely different language for each company
- High levels of security and privacy
- Global view of work & impact
- Working with a large amount of people
- Much more infrastructure is good and bad

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Jun 24

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final takeaways

- Work hard and be nice
- "Yes, and" mindset
- Proactively ask for feedback
- Fit is important! The role and your life will change over time
- Stay at a job as long as you can add bullet points to your resume
- Your network is extremely helpful
- Don't be afraid of cold calls or using LinkedIn, leveraging help from others

Thank you!

https://www.linkedin.com/in/angelahwang