



July 29 - August 9, 2019

UCLA Sci|Art Lab+Studio Summer Institute, CNSI (California NanoSystems Institute) UCLA

**500 – 50 – 5:**

**from nano structures to stardust – what's next?**

**500 years since Leonardo da Vinci**

**50 years since Apollo 11 moon landing**

**5 years into the future -- what's next?**

**UCLA Professors (curriculum / lectures):**

Dr. Victoria Vesna, Art|Sci Center, Department of Design Media Arts, Founder + Director

Dr. James Gimzewski, Department of Chemistry, Scientific Director

Dr Adam Stieg, CNSI Associate Director, SciArt Director Emeritus

**Visiting Professors:**

Dr. Claudia Jacques, SUNY WCC Art & Design, CUNY BCC Art & Music, SciArt Associate Director

Dr. Clarissa Ribeiro, Innovation and Prototype Lab Director, UniFor, Brazil, Senior Instructor

**Instructors (workshops / lectures):**

Kaitlin Bryson, MFA, Lead Instructor, UCLA Art|Sci

Mick Lorusso, MFA, Los Angeles

Sam Lilak, PhD researcher, Gimzewski Lab

Maru Garcia, MFA Design Media Arts

**Assistant instructor:**

Andrew Ortiz, Undergraduate student, Design Media Arts

**Part time Instructors & Support:**

Monica LoCascio, MFA student, Angewandte, Vienna, Austria

Zeynep Abes, MFA student, Design Media Arts

Amy Fang, Undergraduate student, Design Media Arts

Ivana Dama, Undergraduate student, Design Media Arts

Shane Houchin, Undergraduate student, Geology

Helen Huang, Undergraduate student, Marine Biology

Ellen Ferranto, Sci|Art Alumna

# Week 1

## SUN 07.28.19 WELCOME TO UCLA

4:00 – 6:00pm

University Village | Arrival and Check-In

## DAY 1 | MON 07.29.19 MON 07.29.19 INTRO TO SCI ART & NANOSCIENCE

8:30 – 8:40 am	Sproul Hall	Meet to walk to CNSI
9:00 – 10:30 am	CNSI Auditorium	Introduction to Sci Art Lab+Studio Welcome Art & Science   collaborations: Towards a Third culture   Prof. Victoria Vesna CNSI Welcome   Dr. Adam Stieg Sci Art Collaborations   Prof. James Gimzewski
10:30 – 10:50 am	CNSI Lobby	The Surrealist Game   ALL
10:50 – 12:00 am	CNSI Lobby	Lecture/Workshop Foldscopes   ALL
12:00 – 1:00 pm	Ackerman	Group Lunch with Instructors
1:00 – 2:30 pm	CNSI Auditorium	Instructors Introductions (ongoing): Mick Lorusso + Clarissa Ribeiro + Sam Lilak + Kaitlin Bryson + Andrew Ortiz + Maru Garcia
2:00 – 5:30 pm	CNSI Lobby	Workshop: Ecosensing and Collection   Sam Lilak + Mick Lorusso + Clarissa Ribeiro
5:30 – 7:00 pm	CNSI 6th Floor Night Activity	Welcome Dinner Party Blog 1

## DAY 2 | TUES 07.30.19 UNDERSTANDING NANO | ECOSENSING

8:40 am	Sproul Hall	Meet in front of dorms to walk to CNSI
9:00 – 9:15 am	CNSI Auditorium	Video, feedback, review and -prep for day
9:15 – 9:45 am	CNSI Auditorium	Lecture: Nanotechnology: Time to be Really Small   Vuk Uskoković
9:45 - 11:00 am	CNSI Auditorium	Workshop: Ecosensing and Embodied ways of Making: Sam Lilak + Mick Lorusso + Clarissa Ribeiro
11:00 - 12:00 pm	CNSI Lobby	Lecture: Tools of Visualization   Dr. Adam Stieg
12:00 – 1:00 pm	Campus	Lunch
1:00 – 3:00 pm	CNSI - A Level	Rotating Lab Visits CNSI Core Technology Centers

		<ul style="list-style-type: none"> <li>· <a href="#">Optical Microscopy - ALMS Core Lab</a></li> <li>· <a href="#">Electron Microscopy - EICN Core Lab</a></li> <li>· <a href="#">Scanning Probe Microscopy - NPC Core Lab</a></li> <li>· <a href="#">Nanofabrication - ISNC Clean Room</a></li> </ul>
3:00 – 5:00 pm	CNSI Lobby	Workshop: Synthesizing what we’ve learned: Nano Perception Optics + observe ecosensing collection
5:00 – 5:30 pm	CNSI Auditorium	<a href="#">Intro to Final Project</a>   Mick Lorusso
5:30 – 7:00 pm	University Village	Dinner
7:00 – 9:00 pm	CNSI Auditorium	Sci-Fi Film series
	Night Activity	Blog 2

### DAY 3 | WED 07.31.19 BIOLOGICAL MINDS

9:00 – 9:15 am	CNSI Auditorium	<a href="#">Video, feedback, review and - prep for day</a>
9:15 – 12:15 am	CNSI Lobby	Workshop: Communication With Plants   Mick Lorusso + Sam Lilak + Maru Garcia + Clarissa Ribeiro
12:15 – 1:15 pm	Campus	Lunch
1:15 – 1:30 pm	CNSI Auditorium/Lobby	<a href="#">Thoughts</a> : Claudia Jacques
1:30 – 3:30 pm	CNSI Auditorium/Lobby	Lecture/Workshop: Mycology and Mycoremediation - Tools for New Futures   Kaitlin Bryson + Andrew Ortiz
3:30 - 4:30 pm	CNSI Auditorium/Lobby	Discussion: 3D computer graphics and VR for SciArt   Prof. Victoria Vesna
4:30 - 5:30 pm	CNSI Auditorium/Lobby	Lecture: Extreme Environments   Scott Hessels
5:30 – 7:00 pm	University Village	Dinner
7:00 – 9:00 pm	CNSI Lobby	Sci-Fi Film Series
	Night Activity	Blog 3

### DAY 4 | THU 08.01.19 ECOLOGICAL NETWORKS: SIGGRAPH FIELD TRIP

8:30 am	Sproul Hall	Meet to walk to Luskin Center
8:50 am	Luskin Center	Take the bus
9:00 – 9:40 am	LA Convention Center	Field Trip: <a href="#">SIGGRAPH</a>
9:40 – 10:10 am	LA Convention Center	Individual ticket pick up / Bathroom
10:10 – 2:50 pm	LA Convention Center	Experience Noise Aquarium VR, meet programmer, and see works in the gallery
2:50 – 3:15 pm	LA CC Location TBA	Meet to walk to the bus
3:15 – 4:15 pm	Bus Trip to CNSI	Walk to CNSI
4:15 – 4:30 pm	CNSI Auditorium	Video, feedback, review and -prep for day
4:30 – 5:30 pm	CNSI Auditorium	Lecture: The Need for STEAM in Society 5.0:

5:30 – 7:00 pm  
7:00 – 9:00 pm

University Village  
CNSI Auditorium  
Night Activity

an era of social and technological fusion |  
Aki Yamada  
Dinner  
Art | Sci Undergraduate Exhibition  
Blog 4

#### DAY 5 | FRI 08.02.19 SPACE

8:30 – 8:40 am  
9:00 – 9:15 am  
9:15 – 12:30 pm  
12:30 – 1:30 pm  
1:30 – 2:00 pm

Sproul Hall  
CNSI Auditorium  
CNSI Auditorium / Lobby  
Campus  
Court of Sciences

Meet to walk to CNSI  
Video, feedback, review and -prep for day  
Midterm Brainstorming + Studio  
Lunch  
Lecture: Micrometeorites on Earth |  
Shane Houchin

2:00 - 4:00

Meteorite Gallery &

Micrometeorite workshop & Rotating tours  
of gallery and hunting for micrometeorites  
on campus

4:00 – 5:00 pm

UCLA Campus  
Young Library  
Night Activity

Project Research | Groups + Instructors  
Blog 5

#### DAY 6 | SAT 08.03.19 FIELD TRIP

9:40 am  
9:50 am  
10:00 – 10:30 am  
11:00 – 12:45 am  
1:00 – 1:45 pm  
2:00 – 3:15 pm  
3:15 – 4:30 pm  
4:30 – 7:00 pm  
7:00 – 8:00 pm

Sproul Hall  
Luskin Center  
UCLA-CSC  
CSC  
CSC  
CSC  
CSC  
Venice Beach  
Venice Beach-UCLA  
Night Activity

Meet to walk to Luskin Center  
  
Bus to California Science Center  
[Science Center](#) + Lunch  
[IMax Movie](#)  
[Endeavour](#)  
Venice Beach  
  
Bus to UCLA  
Blog 6

#### DAY 7 | SUN 08.04.19

Whole Day

University Village | Group Activity | A Day in The Life of a Sci-Artist  
Night Activity

Blog 7

## Week 2

### DAY 8 | MON 08.05.19 DESIGN THINKING: FOLDING, CUTTING, LINKING

8:40 am	Sproul Hall	Meet to walk to CNSI
9:00 – 9:30 am	CNSI Auditorium	Review Week 1   Intro Week 2
9:30 – 12:00 pm	CNSI Auditorium/Lobby	Lecture/Workshop: CRISPR + Applications   Sam LoCascio
12:00 – 1:00 pm	Campus	Lunch
1:00 – 2:15 pm	CNSI Lobby	Lecture/Workshop: Origami and DNA   Ellen Ferranto + Clarissa Ribeiro
2:15 – 3:30 pm		Workshop: Psychobiotic: anthropophagy at a molecular level   Clarissa Ribeiro
3:30 – 5:30 pm		Presentation and Reviews of final projects
5:30 – 7:00 pm	University Village	Dinner
7:00 – 9:00 pm	CNSI Auditorium	Students Show + Tell   A Day in the Life of a Sci-Artist
	Night Activity	Blog 8

### DAY 9 | TUES 08.06.19 INVESTIGATION | GETTY

8:30 am	Sproul Hall	Meet to walk to Luskin Center
8:40 am	Luskin Center	Meet to take the bus
8:45 – 9:20 am	Luskin/Getty	Bus Trip to Getty Center
9:20 – 9:45 am	Getty Tram	Tram Trip + Bathroom stop
9:45 – 10:00 am	Getty Plaza	Lab Tours Division
10:00 – 11:00 am	Getty	Tour 1 : <a href="#">Getty Lab Tours</a>
		Tour 2: Museums
11:00 – 12:00 pm	Getty	Tour 1 : Museums
		Tour 2: <a href="#">Getty Lab Tours</a>
12:00 – 2:15 pm	Getty	Lunch + Museums
2:15 – 2:40 pm	Getty Plaza	Photos + Tram to Getty's garage
2:45 – 3:30 pm	Bus to CNSI	
3:30 – 3:45 pm	Luskin/CNSI	Walk to CNSI
3:45 – 5:30 pm	CNSI	Lecture/Workshop: Molecules in VR   Zeynep Abes
5:30 – 7:00 pm	University Village	Dinner
7:00 – 9:00 pm	CNSI Auditorium	Mycelium Molds
	Night Activity	Blog 9

## DAY 10 | WED 08.07.19 INSPIRATION

8:40 am	Sproul Hall	Meet to walk to CNSI
9:00 – 9:15 am	CNSI Auditorium	Video, feedback, review and -prep for day
9:15 – 11:15 am	CNSI Auditorium/Lobby	Project critique + studio
11:30-12:30 pm	CNSI Auditorium	Lecture: Ethics in art in science   Rita Blaik
12:30 – 1:30 pm	Campus	Lunch
1:30 – 3:30 pm	CNSI Auditorium	Lecture/Workshop: Network Ecology   Ariel Levi Simmons
3:30 – 5:30 pm	CNSI Auditorium	Studio
7:00 – 9:00 pm	TBA	Studio
	Night Activity	Blog 10

## DAY 11 | THR 08.08.19 PERSPIRATION

8:40 am	Sproul Hall	Meet to walk to CNSI
9:00 – 9:15 am	CNSI Auditorium	Video, feedback, review and -prep for day
9:15 – 12:30 pm	CNSI Lobby	Project Critique & Studio
12:30 – 1:30 pm	Campus	Lunch
3:00 – 5:30 pm	CNSI Lobby	Studio
5:30 – 7:00 pm	University Village	Dinner
7:00 – 9:00 pm	TBA	Studio + complete final projects + presentations
	Night Activity	Final Projects

## DAY 12 | FRI 08.09.19 CLOSING PROGRAM

8:30 am	Sproul Hall	Check-out and walk to CNSI
9:00 – 10:00 am	Lobby	Morning reception + Final preparations & testing
10:00 – 11:00 am	CNSI Auditorium	Welcome & Program Review
11:00 – 1:00 pm	CNSI Auditorium	Final Presentations + Certificates
1:00 – 2:00 pm	Lobby	Reception