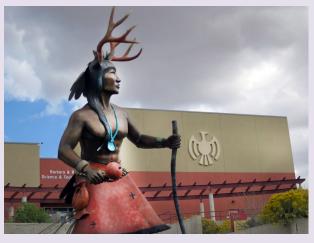
Institute of American Indian Arts (IAIA)







"To empower creativity and leadership in Native Arts and cultures through higher education, life-long learning, and outreach."

- IAIA mission

Santa Fe Institute (SFI)







Searching for order in the complexity of evolving worlds.

Former UCRs with Mentors







"Those (UCR) summers stand out in my memory as important turning points in my academic career and way of thinking about the world."

– Bradi, UCR 2015









Abeera (A-bee-ra)



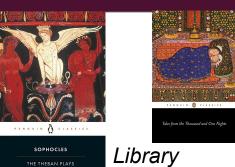










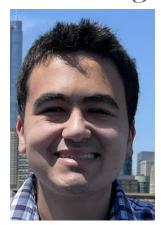






Photography & Aviation

Nathan Hasegawa



$$\operatorname{Var}[P(t)] = \begin{cases} P_0^2 \left[\left(\sigma_1^2 + \mu_1^2 \right)^t - \mu_1^{2t} \right] & t < T_s \\ P_0^2 \left[\left(\sigma_1^2 + \mu_1^2 \right)^{T_s - 1} \left(\sigma_2^2 + \mu_2^2 \right) - \mu_1^{2(T_s - 1)} \mu_2^2 \right] & t = T_s \\ P_0^2 \left[\left(\sigma_1^2 + \mu_1^2 \right)^{T_s - 1} \left(\sigma_2^2 + \mu_2^2 \right) \left(\sigma_3^2 + \mu_3^2 \right)^{t - T_s} - \mu_1^{2(T_s - 1)} \mu_2^2 \mu_3^{2(t - T_s)} \right] & t > T_s. \end{cases}$$

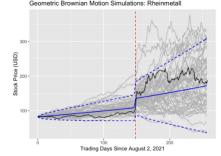


Figure 3: Simulations and data for the Rheinmetall stock price, August 2, 2021 to August 1, 2022

Mathematics



Crossword Puzzles

Shloka Janapaty











Unexpected Hobby: Climbing things







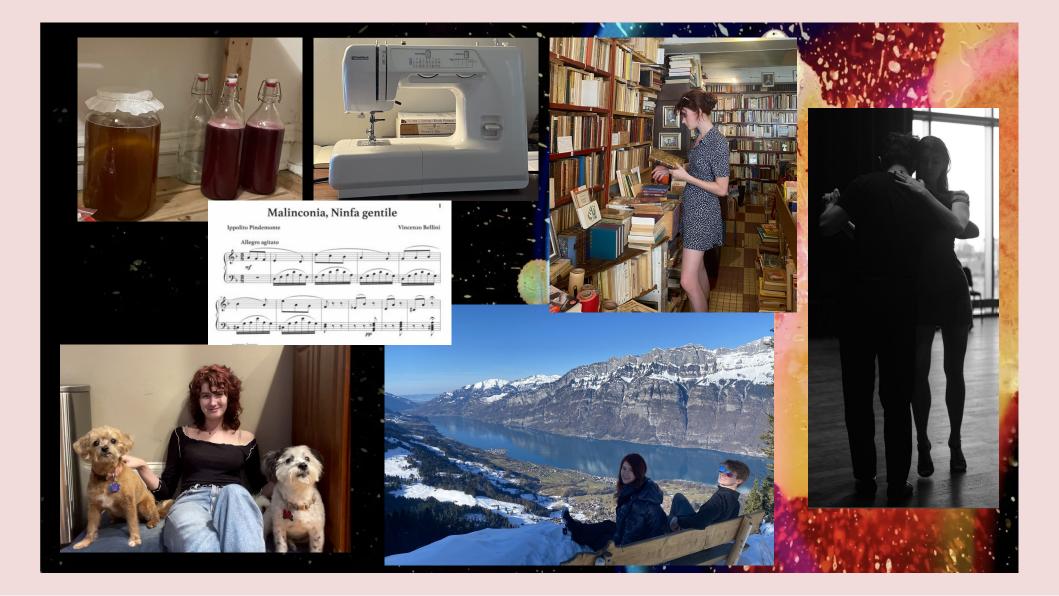
Favorite Place: Tuolumne Meadows

Non-fiction

Flow by Mihaly Csikszentmihalyi
The Selfish Gene by Richard
Dawkins
The Structure of Scientific
Revolutions by Thomas Kuhn
The Sixth Extinction by Elizabeth
Kolbert
Moonwalking with Einstein by
Joshua Foer

Top 5 Movies

American History X
Saving Private Ryan
12 Angry Men
Lord of the Rings: The Return of the
King
The Departed

















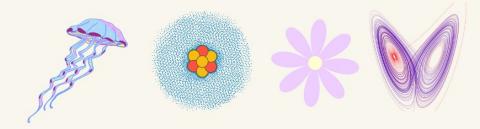


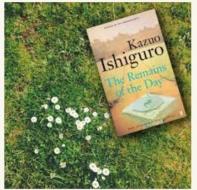






anish pandya (he/they) | physics, math, computing | ut austin

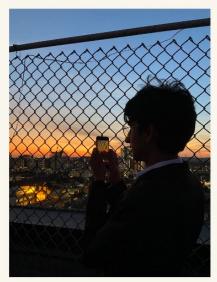


























Week 1 & 2 Outline

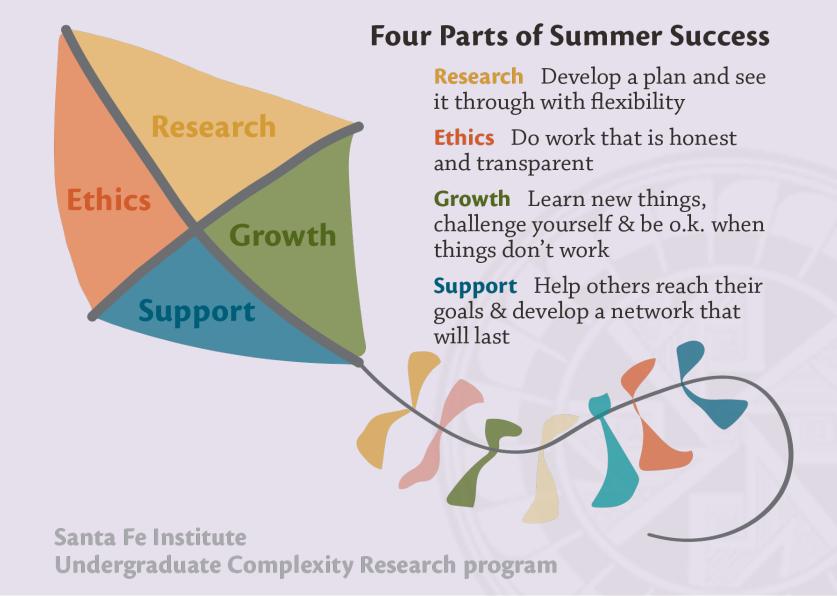
THEME: Don't worry. Don't worry. (this is a reminder to be deleted)

Week 1

- Day 1 Orientation
- Day 2 Orientation
- Day 3 Meet Mentors | Learn about project ideas
- Day 4 Tutorial and Begin meeting with SFI researchers
- Day 5 Morning Workshop| Afternoon Scavenger Hunt (downtown)

Week 2

- Day 1 Morning at IAIA at CSSS: David Krakauer talk | Porter Swentzell talk Afternoon Meet with David Krakauer
- Day 2 Tutorial | Meet with SFI researchers about projects and mentoring
- Day 3 Tutorial | Meet with SFI researchers about projects and mentoring
- Day 4 Tutorial | Meet with SFI researchers about projects and mentoring
- Day 5 Let Education know your mentor | Start writing your project abstract (due 6/20)



SMART Goals for Science (from the NIH)



What will we accomplish?



MEASURABLE

How will we know when it is done?



ACHIEVABLE

Is this realistic? Can we do this?



RELEVANT

Is it worthwhile? Does it help us towards the goal?



When will this be accomplished?

Good to Know

In-house Email

- Who can use it; who receives it.
- Types of communication
- What to watch for: seminars, colloquia, guests

Tuesday is Library Tour

Dinners for Week 1

- Host: Mon with Cate; Tues with Carla; Wed with Leah;
 Thur with Arno; Fri with Carrie; Sat with Carla
- Meal Times at IAIA How it is going to work

PROGRAM AGREEMENTS

Respect

- Treat everyone with respect at all times in all settings.
- Communicate clearly. Listen attentively. Let people finish.
- Trust your mentors guidance. Respect their effort and their time.

Openness

- Allow everyone to contribute. Embrace diversity.
- Be open to new ideas. Learn from different points of view.
- Support each other. Ask for help when you need it.

Accountability

- Arrive on time and be prepared. Don't keep people waiting.
- Try your best. Deliver what you promise.
- Set Goals. Challenge yourself. Learn and improve from mistakes.

Day 1 paperwork

Travel reimbursement

after lunch: complete an online form you will receive by email (Noyce)

- receipts
- flights, baggage fee, ground transport
- arrival & departure

SFI docs to sign

- also online via email (Box Sign request)
- code of conduct
- press release
- non-SFI activity report (often nothing to report)
- contract/waiver
- non-discrimination non-harassment
- confidentiality & nondisclosure

Mentor Matching & Project Selection

- Wednesday, June 7 = Day 3 of the program
 - Mentors will introduce themselves
 - Mentors describe their current research
 - Mentors (or mentor teams) will offer interesting research project(s)
- June 7–16 = Weeks 1 & 2 of the program
 UCRs will request 1-to-1 meetings with mentors to discuss research interests & potential projects
- Chris Kempes & Melanie Mitchell are available to advise
- Co-mentors has lots of benefits; UCR collaborations can work well

Mentor Matching & Project Selection (cont.)

- Friday, June 16 = End of week 2 of the program
 - Mentors and UCRs will informally agree to work together; UCRs submit this information to the program staff for review
 - UCR co-directors will confirm matches individually with each of you
 - UCRs submit a project title to program staff; You will receive a guidance on writing an abstract (due Tues 6/20)
- Projects will evolve over the summer and are a collaborative effort between the student(s) & mentor(s)
- Mentors are welcome to guide projects toward more assured success

Helpful Things to Know

How SFI works and helpful things to know

- Work spaces
- Meeting with SFI researchers
- Times for networking and socializing
- Enrichment opportunities
- Self-care
- Being strategic about food
- CSSS will arrive on Sunday, June 11
- CSSS sharing spaces
- Juneteenth observed by UCR program
- July 4th observed by SFI and UCR program

More Helpful Things to Know

Important items scheduled this summer (all on calendar):

- tutorials week 1 & 2 (be ready to start at 930am)
 - This Wed becoming a well-rounded researcher
 - This Thu getting organized
 - Next Tues abstracts & flash talks
 - Next Wed good code, github, +
 - Next Thur slide and figure design
 - UCR alumni panel 'wish I had known'
- check-ins with EDU staff (randomly assigned)
- week 4 flash talks
- week 5 more tutorials
- week 10 final talks
- Friday: workshop w/ Mikahla at Miller Campus (arrive 8:45)
- Stipend first payment
- Slice of Science today. We'll meet in the reception area at its conclusion for an SFI tour.

10 Skills for UCRs

Add These Skills to Your Toolbox.

- 01. Consistency & Reliability Skills are wasted without consistency. Ideas can't progress without reliability. Build consistency and reliability and the rest will follow.
- 02. Inquisitiveness Question everything, even the obvious. Be genuine in your interest. Listen completely. Change your mind when presented with new evidence.
- 03. Openness Seek out the brilliance of people from diverse backgrounds. Absorb as much as you can from people around you. Try to understand disparate perspectives.
- 04. Synthesis & Breadth Develop the ability to synthesize what you know to achieve your long-term goals. Expose yourself to a lot of topics. Look for patterns and connections. Ideas come from unexpected places.
- 05. Perseverance Long-term success is not linear. Failure is part of the journey. If you're not failing, you're not challenging yourself.
- 06. Discipline & Focus Take control of your time. Block out distractions. Hone your concentration skills. Set daily goals. Prioritize your work.
- 07. Self-Motivation Take responsibility for your achievement and growth: this will set you apart from others. Self-directed learning is essential.
- 08. Confidence & Communication Know your value and what you contribute. Learn to ask for what you need to reach your goals. Work to express yourself clearly so that people understand your thoughts, ideas, and opinions.
- 09. Dedication "Perfect" is not the goal, whether personally or in your research or academics. Doing reliable work, interesting work, and meaningful work is the goal.
- 10. Self-Care Your mind and body need to rest. Breaks can lead to clarity and inspiration. Breaks can renew your enthusiasm and your sense of purpose.