

SPIRE-EIT|2019

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Karina Bhattacharya

·	Intern Blogs
	Bradon Thymes Emmanuelle Hermandez Jennifer Patterson Karina Bhattacharya Kelsey Benjamin Lara Chunko Lucas Wright Nina Crosby Walton
	Roselynn ConradySyema Ailia
Closing Remarks 8/2	Tiger JiVrinda Shroff
📾 August 2, 2019 🛛 🌡 Karina Bhattacharya	Decent Decto
It's been a long and short 10 weeks at the same time. 10 weeks is really a long time to be spending the summer, and it's surprising to think that's it's almost over.	Recent Posts From a Great Past to a Terrific Future
What did I learn from this program?	 Poster Symposium Yesterday Finale Not Yet
I learned that it's okay to feel like an impostor (thanks, Birdie). In fact, I learned that a lot of other people feel that, even though I thought that they were the people who had everything together. I really wanted to come to this REU in particular because I figured that whatever engineering knowledge I needed to know for the project, I would learn along the way. I belonged here as much as everyone else because I was just learning. That was a brave step, but I'm glad I took it.	Last Day Its the Last Day?! It Can't be Over Yet! - August 2, 2019 Closing Remarks 8/2 Bittersweet Chocolate Tick Tick 1 Last Dance
That brings me to my next point. I keep learning this over and over, but I learned again that I'm a work in progress. Often, before I have anything to show the group, I want it to be polished and refined. I don't want to tell them that I haven't fully thought through a concept. I learned that an important part of research ideation is finding out those "unrefined ideas" and exploring them with others, instead of choosing between to perfectly packaged ideas. I learned that it's okay to be a work in progress.	VR Dance Team at the Symposium Synergy at the Symposium 8/1 Tick Tick 2 The Early Birdie Gets the Hot Chocolate Bar Last Work Day
I also learned that grad school is a real thing. Before coming here, I often thought of it as some abstract idea, when people in my school referred to going to "grad school". I didn't really know what it meant until I learned about it from the grad students at VRAC, by the grad school panel or just chatting with them in the lab. Also, participating in the REU projects was great experience for preparing us for grad school. I finally understand that research takes a long time. We spent 10 weeks here and it doesn't feel as if we scratched the surface on perspective taking in spatial cognition. There's much to learn and explore, and that's why I'm happy about continuing our project.	Video editing skills are coming back to me7/31 Recent Comments Abby Boylos on Its the Last Day?It (Can't be Over Yet) – August 2, 2019
Networking and having mentors is important. I am grateful for all the support I received from the staff of the REU. They're really nice people who have lived through grad school and want to see you succeed, so it only makes sense to get support from them. I also met a PhD who's in ID, and I networked with her and learned so much about what I can do in ID research. It helps to reach out the people and meet as many people who can help you in your professional development.	 Abby Boytos on Finale Not Yet Abby Boytos on Poster Symposium Yesterday Abby Boytos on From a Great Past to a Terrific Future Abby Boytos on Tick Tick 1 Abby Boytos on Tick Tick 1 Abby Boytos on Bittersweet Chocolate
Grad school, networking, and research is important. But remember to force yourself out of the apartment once in a while. Go out with your mentors and friends and have a nice time hiking or exploring the mall in Ames. I don't think my summer would have been as rewarding if I didn't invest my time in friends as well.	Meta • Site Admin
That's probably a small section of what I learned in this program, but it's knowledge I want to impart with you all, whether you're a current intern or a future one. I had a great time, and if you make the most out this program, I'm sure you will enjoy it too.	Log out Entries <u>RSS</u> Comments <u>RSS</u> WordPress.org
Uncategorized I Reply / Edit	Funded by NSF
Synergy at the Symposium 8/1	
August 2, 2019 Karina Bhattacharya It's finally August This summer, and this program, went by so fast. We did our closing remarks at a video that Paul interviewed us for. I remember watching those videos before I applied this past winter, and now being able to record our own is surreal. The major event of yesterday was when presented our work at the symposium. That event seemed so distant in the future when we heard of it at the beginning of the program, but it happened!	NSF
I was really proud of our group's presentation. We surely demonstrated a lot of synergy, and together we all worked to deliver fantastic presentations. The best part was watching other people get excited about our work. I started with the intro and description of the locomotion interfaces, Nina continued with the predictions and methods, and Vrinda finished it off with our results. We even had the video on loop to show our visitors exactly what we tested. I think we did a great job, and we got great feedback and questions from our mentors. Towards the end of the program, I walked around to see what everyone else was working on. It was interesting to see all the research that was being done without us ever meeting these people. I'm interested in presenting in my school's undergraduate research day later in the school year, so the symposium was great practice for that. I've attended several research poster sessions over my undergraduate years, and I've always been eager to do research. I'm so thankful for this opportunity at SPIRE-EIT to conduct meaningful research with great support and resources.	NSF Grant #1757900 Previous Years of SPIRE-EIT
Uncategorized 🖳 Leave a reply	
Video editing skills are coming back to me7/31	
July 31, 2019 Karina Bhattacharya	
The days seem to get busier and busier	
The days seein to get used and busier	
me memory, miller and i worked on getting video capture of our experiment intenaces. I was temple at moving	

around in the discordant interfaces. Eventually, we had to get Roselynn to complete a trial (thank you, Roselynn!) Also, thank you to Vrinda, who converted the video files and organized them on Cybox. I had no problem using the clips in Adobe Premiere and editing the video. I used my video editing skills a lot in high school, but I have only used video editing software intermittently since then. Luckily this video is pretty basic, and I'm not having much proble with it. While we were doing video capture, Stephen stopped by and announced that we would be doing HCl today. That was great news, because we had missed a class while he was gone. The topic of discussion was decision making. I found a lot of the things he shared with us to be true. For example, often we think "fast" when making easy, imm decisions. For instance, when I go to the computer lab, I go to the same computer every time without thinking. If I decisions for instance, when fight one computer lay, go to be same computer levely limited tamming, in f thought "slow" and considered that I should go to another computer, I could use another machine. I tend to favor the first option. Going to the same computer is the easy option, I don't have to choose. We prefer not to make decisions when we don't have to. My brother pointed out this phenomenon to me a year ago, and it has been on my mind frequently since then. I have read some parts of Kahneman's Thinking Fast and Slow, and I think I'll return to it to explore this idea more Our group also made edits to the paper. We had used placeholder text for some of our sections, so we had to fill in those gaps before we submit the paper today. I'm proud of the work we did on the paper, in addition to our other REU deliverab Uncategorized Q Replies @ Edit Our Last (Luncheon) Lecture 7/30 🖮 July 31, 2019 🛛 🎩 Karina Bhattacharya This morning, my team went to Jon's lab to film some broll for Paul. We did some basic shots, us working at the In a moning, if your work of the executable. I was in the header. Jon stopped by and said we'll made excellent progress if we were already videotaping our reflection. We have a full team meeting later today. I'm excited to discuss our results with everyone in person. Birdie Shirtcliff was the presenter at today's last luncheon lecture. She gave us a "last lecture" after the concept of giving one's last lecture, coming from an idea at Carnegie Mellon. She gave some great life advice. My takeawar we place limitations on ourselves, but they create diversions from the norm, which can be for the best. I think I'd like to give a "last lecture". I've been eager for the opportunity to share life advice with people. I'm young, but I also think that I have a lot to offer She also taught us a lot about behavioral biosciences. Birdie gave us a lot of tips on living longer and forming healthy relationships, and I will definitely take note of those things for my future benefit. Uncategorized Unc @ Edit Limitations, Edits to the Poster 7/29 🛗 July 29, 2019 🛛 💄 Karina Bhattacharya We had our last group dinner on Saturday! Thank you to Abby for planning this great event. Texas Roadhouse was fun, there was great food, and it was great reflecting on some of the great memories in the program. We have one more week ahead of us, and then on Saturday, we part ways for now Today, our grad mentor gave us some edits for the paper and poster. For the paper, there was some work do to on our di

on. We had listed out the future directions of the project, but Lucia suggested that we had to expla further why those directions would make sense. Our paper also needs a discussion of the limitations of our experiment. I've started to make some changes, but I will check with her later to make sure the paper is on the right track. There has also been some updates to the poster with which we have been going back and forth with her. I really like how much the poster has improved since the first draft. I can't wait to present it on Thursday — and next spring at my university's undergraduate research day. In the meantime, we have to keep working hard to meet these final deadlines this week Uncategorized Uncategorized Leave a reply @ Edit Poster, Discussion 7/26 🖮 July 26, 2019 🛛 🚨 Karina Bhattacharya My group went over our poster today. It was a really smart idea to print it out on regular copy paper and mosaic it Together to see what the final poster would look like, without actually using a plotter. It's going to look great when it is finally printed out. I'm excited to showcase it at the symposium. Once we were done, we sent it to our grad mentor for

edits Stephen mentioned that we needed to spend more time on analyzing our work. Following his advice, I went to Abby for help with writing the discussion. She was very helpful. I learned how to articulate the results and mention the hypothesis without being repetitive. We recently got comments back for the poster and paper from our grad mentor We expect to finish those edits by Monday. I can't believe we're approaching our last weekend before we leave. I have to start getting ready for school, which is nerve-racking but also exciting at the same time. 💷 Uncategorized 🛛 🖳 Leave a reply @ Edit A week until the symposium! 7/25 🛍 July 25, 2019 🛛 🚨 Karina Bhattacharya

I'm going to hop on the "this is about to end train" that's been running past Freddy since halfway through the program. Usually, I keep working towards a deadline (like the end of a semester), don't think much of it as it creeps forward, but once it flies by, I'm surprisingly lost: "what just happened?". That's what happened last semester, and what I suspect, will happen again this summe Before I came here, I faced a huge block of time at Iowa State, when I would be spending a majority of the summer. I came in with little to no expectations, so I can't exactly say that ISU met my expectations or not. It's been an enjoyable time, however, and I've liked my time here in ways I wouldn't have anticipated. I'm trying to figure out how I can use what I've learned from here, but I think it's best that I leave and find out later. Today we had a luncheon lecture by Dr. Peng Wei. He talked about optimizing flight patterns. It made me really appreciate all the air traffic control and optimization work that is done behind the scenes every day. He also explained to us what drone racing was. The video Peng showed us made it look really cool! I don't know how the pilots can manipulate those drones at such high speeds. Dr. Peng Wei seems to be really involved both in research and with his club, and he gave us some great life advice during lunch. It was overall a really interesting talk, and I think he's a great role model for someone who's interested in becoming a professor

💷 Uncategorized 🛛 🖳 Leave a reply @ Edit Our results are... 7/22-7/24 🗯 July 24, 2019 🛛 🚨 Karina Bhattacharva Hey! I was really good about blogging every day for most of the program, but recently I've been slacking off. I'm still trying to accomplish my goal of blogging every weekday, so here I go:

Monday, July 22 Monday was the trip to Minnesotal I'm normally happy with 3 hour car rides; it makes me feel road-trippy but isn't too extreme. This trip was no exception, which was good. I just wish I hadn't sat in the middle seat on the entire way there...that was a bit uncomfortable. The University of Minnesota was gorgeous! I think it also helped that there was perfect weather. I wish we had more time to walk around the really nice campus and explore. It was great to see the other VR demos and the redirected walking lab. I'd heard of redirected walking before from Dr. In this great to see the other VT ends and the insector wanted wanted and the intervention of the interventintervention of the intervention of the What about testing for product displays in windows? There was some great presentations on what our groups and their groups were doing. I was really proud of our group's presentation and how we handled the questions. I saw that some of the MN labs used Jon Kelly's research; we're so fortunate to have him here at Iowa State.



I also went to the Nickelodeon store and got Appa, an air bison from the show Avatar the Last Airbender



Overall, the trip was really fun, and I'm really thankful I had this experience during the REU Tuesday, July 23 I came to work not feeling well, so I went to Freddy soon after. Not much happened...

Wednesday, July 24 I came back to work today feeling 100%. I met with Lucia to review that I had missed about the data, that the team had went over the day before. We finally got our results back, and they were not what we expected. There's more to discuss when we present our poster on Tuesday! I also talked to Lucia at length on how to change my resume. I need to make sure that I'm framing the research I am doing here correctly. I think that's an important takeaway that I should figure out before Lleave 💷 Uncategorized 🛛 🗔 1 Reply @Edit We are done! 7/18-7/19 🛗 July 19, 2019 🛛 🎩 Karina Bhattacharya Teleport team is finally done with our experiment! We've tested 10 people. We had some trouble rescheduling people and some problems with data, but I'm happy that we finally met our goal. We are going to start analyzing data next week. Thank you to everyone who participated in our experiment! We also finished up our presentation for Minnesota today as well. I'm excited to go north. Hopefully it will be colder. 💷 Uncategorized 🛛 🖳 Leave a reply Let's Teleport! 7/16 - 7/17 🛗 July 17, 2019 🛛 🎩 Karina Bhattacharya rday and today we've been testing participants. As of right now, we've tested three people, and we have eight people scheduled total. Our goal is ten. I'm not sure if we will make it, but at the moment we're just trying to test as many people as possible. The experiments are running smoothly, and we've gotten used to running the entire thing through We had luncheon lecture vesterday at 11. Anna Slavina led the book discussion for Stand Out of Our Light. I had a ton of questions and comments about the book, but those didn't seem very relevant to what everyone else was talking about I was more interested in the question that started the book, which was asking about a phenomenon that was affecting the political system. Williams mentions politics a lot, but I don't think its the main focus of the book, but rather a common side note, that "oh this applies to politics too." Other people were interested in how the information age shapes our reality. Do we only believe things because we know a lot of other people think the same way? It's an interesting question. I think we could've discussed the book a lot more, but that hour-long discussion was just scratching the surface, to quote Lara. Yesterday at 4pm, we had Craft of Research. I found the session to be very productive. We peer reviewed each other's papers. Our team got some comments back on our paper. I think I'll ask Abby and Andrew for a closer look at our paper and poste It was really rainy today, so it was just a cold day in the lab. I'm back at VRAC now to post here and fill out the course evaluation forms. I'm also trying to convince some people to participate in our experiment... Please sign up if you haven't already! Uncategorized Question @ Edit I'm an experimenter! | 7/15 🗯 July 15, 2019 🛛 🚨 Karina Bhattacharya oday was almost entirely dedicated to working on our project. I started this morning by reading over our paper and making some citations, which is unfortunately the least exciting part of our paper. I also read over the abstract that Wrinda wrote, and we submitted if later today after Lucia had the chance to look over it. We went to the Navigation lab today, and we couldn't get Unity to work there, but once Lucia showed us how to activate the headset, the setup worked! It seemed really obvious what we were missing, but that's fine. We can use our Unity anywhere now. Nina and I worked with Lucia to go over the experiment protocol. We practiced performing the experiment with each other, from the consent form to trial, and to the experiment task and debriefing. My speech felt pretty bumpy at first, but I think I'll do better tomorrow when Ni teach Vrinda how to conduct the experiment as well. I like to plan things out, so I set up an online poll so that the REU interns can sign up for our experiment. If you are reading this and haven't signed up yet, please do sol Uncategorized Que Leave a reply @Edit MCA Presentations, Project Work 7/9-7/12 📾 July 12. 2019 🔍 🔍 Karina Bhattacharya

This morning, I went o	July 11
	ver the paper again and looked at Lucia's edits. It finally got compiled into one document, is very fulfilling, It made all of our progress feel very real. I'm going to keep working on the eady as possible for next week's draft that's due.
in virtual environments	are was with our project's mentor, Dr. Jon Kelly. I really appreciated his talk on space pero . I already had learned before that people underestimate distances in VR vs. real life, but in space perception in addition to navigation. An interesting test he described was "blind
walking," where the su	In space perception in addition to navigation. An interesting test he described was build bject walks the distance they perceive to be the object. Everyone asked great questions, e really trying to imagine the experiments in their minds.
- and I was the first p	entation, which was postponed from Tuesday. Veejay chose that the 3D printing group gc erson to go in our group, so I went very first. But we were all going to go eventually within t d. I think I presented my product well. I think it really helped to have Abby there as a perso
could share her experi mind. All of the present	a claim processe in process made my product, Fispli, prove that it was made with her in nece with her broken finger. It made my product, Fispli, prove that it was made with her in tations were really fun, and I had a great time finally hearing about what everyone was wo , 3D Printing, also won the MCA contest, which was an added bonus.
Friday, July	
poster. It was fun to cre	needed time to work on our projects today. I was assigned to improve our existing draft of eate! I kept adding small elements here and there. I changed the poster a lot, now looking low, I also have a better idea of what's going to be written on the poster. Lucia came by al
inishing those edits no	
bractice. Once everyou know that we'll test at	sting next week! On Monday we're going to run through the procedure and test ourselves ne's comfortable with the equipment, we're going to start testing! I'm a bit intimidated bec least 10 participants, which will take ~10 hours. We have all week to get it done, but it stil the But I remind muself that weire accomplicated a lot this week, and I uris afted us the next.
	k. But I remind myself that we've accomplished a lot this week, and Lucia told us the rest smoothly and easily. She's probably right. I Reply
	Together 7/8-7/9
After lunch yesterday,	Karina Bhattacharya I finished up my MCA presentation. I'm fairly happy with how it turned out, and I look forward to up my MCA presentation. I'm fairly happy with how it turned out, and I look forward to up my MCA presentation. I'm fairly happy with how it turned out, and I look forward to up my MCA presentation.
o accommodate for Al	by's needs. I hope that comes off as clear when I present. a meeting with our entire project team. As we went over the multiple components of the
experiment, we all star definitely a huge accor	ted to realize how it was coming together. Seeing the avatar in the virtual environment wa nplishment, because that was the main hurdle we had to get over in order to get the e are going to start collecting data next week.
We had Craft of Resea	and guing to date concerning data next work. arch during our luncheon lecture today. We went over how to make research posters, white to learn for awhile. The best advice I've ever gotten as a poster is to think about your elev
bitch. What visuals/bull Stephen also gave gre	let points would best describe your idea? Then that's what you should put on the poster. at advice to our project team today, which was give a few sentences (30 seconds) to the ut what your project is about, and gauge their interest. If they don't seem interested, move
not, tell them more abo	
but I think it's better that	at the other faculty members and grad students are here for our presentations. \Box Leave a reply
Jamiahus' [july 8, 2019	Defense Karina Bhattacharya
	io long ago, but here's my recap: shen's HCI classes. I think that these classes give possibly the most helpful lessons that I
earned that when it co	ool. On Wednesday we talked about the Gendermag video, which I posted about earlier. mes to Human Error, intention is key. "Did I know how to do what I needed to do?" I definil ion when I am given instructions. Whenever I don't fully comprehend the instructions, I'm p
o making mistakes — use, we have to think o	and most of the time, I don't know that I've made them. When we make programs for oth of any possibility that could go wrong, and often, it's in ways we never expected. Or, we do nissions for the task at hand. I think this was evidently true in the 'cancel' button example t
Stephen gave. Its resu hought that I was inhe	Its were interesting. I found that software developers don't think like UX developers do. I a rently unskilled compared to a software developer. But it turns out knowing things about H
	neiprui. public speaking. Emmanuelle and I gave a very enthusiastic 3-minute presentation to Stej at at a Mexican restaurant. I thought that we could run out of things to say, but I ended up p
over-time. I did a lot be he most important tak	tter than I thought I would have, given Emmanuelle and I only had 6 minutes to prepare. It eaway from 'how to give a talk' was that we have to boil down our presentations into simp
This morning, I returne	ence members to take away and remember. d to VRAC after the four-day weekend. I found out this morning that the interns were lister
ordered his experimen evel of detail that the p	nink he did a great job, and it was evident that he put lots of thought and care into how he t. The committee members asked some in-depth questions on his research, which show oroject went under. Overall, I was pretty intimidated. I'm sure I want to present a masters the structure of the structure of the str
or doctorate dissertation	on someday. Mostly that's because I want to write a huge paper on design theory and pra s after the defense. We answered some of the questions we hadn't thought of/pursued be
ourselves, "what are m hink is right, or what w	hics was, which is principles that guide our behaviors and actions. I wonder, if we asked y ethics?" I would guess that most people would be slow to answer. We rush to say what te think is wrong, but I feel that we don't know each other well enough to think "these are m have in exercises with any ediago. One outdul any that it is one to interesting and the
can always change wh	hem in accordance with our actions. One could say that it's open to interpretation, and that at we think, but I think we can always pursue the path of knowing ourselves better.
Uncategorized	□ Leave a reply n Morals and Ethics in Law
🛗 July 3, 2019	Karina Bhattacharya
worked on the paper	some more. I'm having some problems with figuring out what to write based on what we ve to get started on the procedural instructions. Lucia and Alec came by at 2pm, so we
updated them on what don't have content view	we were working on. We're almost done with the VE, and the avatar is a work in progres wable in the HMD yet, but we're working on it. Afterwards, I continued to work on the Liten helmed with how much I have to read and write for that. It could definitely use more work.
During craft of researc questions because we	h, my team worked on the Discussion section of the paper. We couldn't answer all of the don't have any results yet. We did brainstorm some ideas on what the implications of ou
experiment is, and we'	ve already discussed what we can do to continue improving our experiment. I the last changes on my MCA presentation that Alex suggested that I make. I'm relieved
aren't here. They make	
gave answers, but I fee and dig 10+ feet deepe	for this morning, and I saw that we had an Ethics class. I was agitated after the class. Pe el that we were digging a couple of inches on the surface. I was hoping we'd get philosopi er. We didn't seem to define ethics in a few words, which bugged me. Saying that the det on 'just wasn't a way to get any questions answered. That being said, I've not read Aristo
Nicomachean Ethics	yet, so I just identify ethics as what one believes as right or wrong. Then morals was broug what I could tell from the discussion, morals and ethics may have been translated into mal
don't think the law she	d person and does the right thing. ould require an individual to be a good person by enforcing ethics or morals. I like to think
help, but should it be reaw if they choose not	ssing by someone with car troubles on the side of the road. It takes a good person to stop equired by law? The truth is that some people wouldn't stop, but they shouldn't be breakin to. It could be predicted that less of us would adhere to the law if those "good person" law
Governments instituted	vere the law if everyone who didn't stop broke it? d on the basis of making people good have a history of failure, starting with religious regir i founded to protect the rights of "life, liberty, and the pursuit of happiness." The governme
protects those rights, b	but under that legal scope it limits its control over the rest of our lives. Morals and ethics and ince they seem to open to human choice, why should they be law?
Uncategorized Gendermad	
🛗 July 2, 2019	My Review Karina Bhattacharya
by Margaret Burnett. G	r 'Gender Inclusiveness Magnifier,' which was presented at the 2016 ACM SIGCHI confer endermag was a method of using personas to help tech companies evaluate how differe oftware. One of the personas, Abby was risk-adverse, so these developers had to think of
Abby and ask themselver the selver the selve	offware. One of the personas, Abby was insk-adverse, so these developers had to tinink ves 'would Abby use this interface?' I thought this idea was absolutely innovative, and I ca in approach I would have never thought of. My immediate response would have been to g valuate by what they said, but the development process is streamlined by applying those:
he actual users and	those is succinating to the succination of the succ
personas. From the ov o using Gendermag d	erview of the results, it seems extremely useful. Interestingly enough, some companies re ifferently, and I liked how this study tested the practical implications of distributing their sy opreciated that the researchers came to the conclusion that usability relied more on the fa
personas. From the ov o using Gendermag d o companies. I also ay han on gender. Gende Incategorized	ifferently, and I liked how this study tested the practical implications of distributing their sy ppreciated that the researchers came to the conclusion that usability relied more on the fa armag seems to connect people from all over, and not just by differentiating them by gender Leave a reply
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jackets. We got to the van and reevaluated our plan with everyone. Instead of going straight to the farmer's market, we stopped for brunch at Arcadia Cafe in Campustown. The food there was so good. Syema said she was surprised to find the PG Tips black tea there. I decided to try it, and I loved it. I haven't had tea that good since I was in the UK (which was exactly the point, I suppose). We also went to the farmer's market and checked out some other stores in downtown Ames. While Abby and I were waiting for everyone to purchase their local produce. I asked her about the history of Ames. She didn't know, so I ended up wikipedia'ing it, and a one-paragraph history said it was a stop on the transcontinental railroad. I think Saturday's outing was very fun, and I learned a lot about Ames along the way Sunday was Emmanuelle's birthday. We did a lot of fun activities to celebrate, starting with bowling at an entertainment center called Perfect Games. We all started out not so great, but some top stars were Jennifer Emmanuelle, and Lucas. We later got pizza at Jeff's. I think we ordered two pizza specials that came with cheese sticks, which were so good. I hadn't gotten the chance to try Jeff's before. I'm glad I got the opportunity to go, and I think I would be going back again. This is us afterwards:



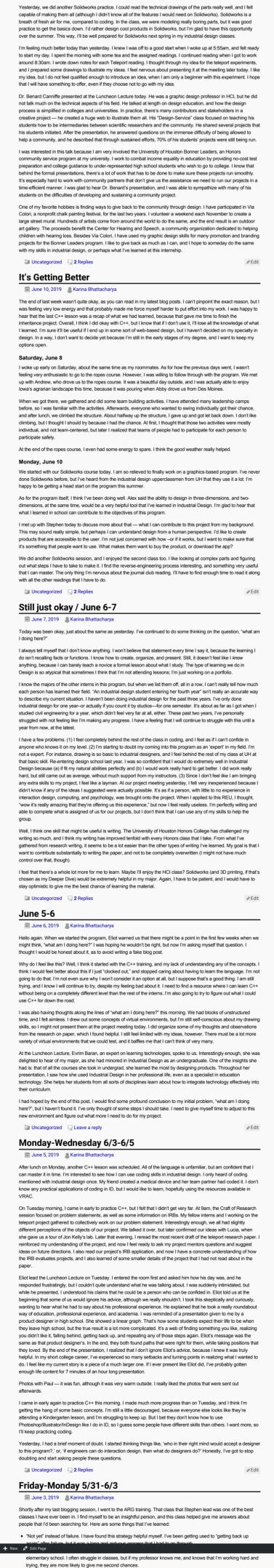
Abby broke her right hand pinkie before we arrived in Iowa, and it's almost healed. Although I can't exactly "heal it" by making her another splint, I was still interested in her experience with the splint that she had to wear. I drew out some ideas that came solely from my imagination, and I presented them to her. We had a constructive discussion about what she liked/didn't like about the splint she had, and she helped me brainstorm on ways that I would improve the design. This, with the technical knowledge about 3D printing that I'm getting from this deeper dive, is helping me to grasp what I finally have to do for the major course asses ment. 💷 Uncategorized 🛛 🖳 2 Replies @ Edit Rainy Day 6/20-6/21 🛗 June 21, 2019 🛛 🎩 Karina Bhattacharya My team met with Lucia yesterday for our first weekly check-in. We clarified some of the basis of our exp we asked helpful questions, like "how would our environment look?" We assigned roles, but this morning, Steven also suggested that each of us take a role in sequential phases of our project. I agree with Vrinda with her saying that Steven's approach would be very helpful for writing our paper. I'm brainstorming the ways that we can use that method of teamwork in the other components of our project as well. We started our deeper dive this morning. Alex seemed very happy to be teaching us about 3D printing, but he likes to say that he's not an expert (and for us not to trust people who say they are). 3D printing is a whole new area for me,

and I'm learning a lot about how it works. I was very straightforward about 3D printing as addressing my industrial design skills, when Alex asked us what we wanted to get out of our deeper dive. I'm sure that I'll gain some technical knowledge, but I'm sure I'll also learn a lot of how engi neers like to design. That'll be helpful when I work with engineers some day. The second deeper dive session happened this afternoon. I understood most of the concepts, but a couple of them were over my head. In general, I understand how a 3D printer works now. I'm excited about all of the other paths that each of the people on 3D printing are choosing. We really get to choose what would best demonstrate our new skills in our specialty, and I think that is really cool. I'm interested in making a medical 3D print, with perhaps help from the 3D scanning group The biggest surprise that I got from 3D printing was the idea of 3D printing as "rapid prototyping." That's a wild concept for me. In Industrial Design, we make cardboard models, or foam models for rapid prototyping. The second we go into Solidworks, it's no longer rapid (because it takes forever), according to the design timeline. I'm anxious to start sketching ideas for a medical product this weekend. I also want to get started on those t-shirt designs! I want to make a lot for the interns to choose from. @Edit Halfway! 6/19-6/20

🛗 June 20, 2019 🛛 🚨 Karina Bhattacharya After blogging yesterday, we started our last Unity class. I definitely wouldn't consider myself an expert at Unity at this point. I can read code and understand how it translates into unity, but I don't feel confident at all with writing code myself. I am not sure how much I can contribute to our experiment in Unity, but I am willing to learn when we get there We chose our deeper dive after the Unity session. I really wanted to get 3D printing, and that's because I feel that it would be a great skill that I would have to eventually have to learn for ID. I even wrote so in my preference paper. I'm glad that most everyone got their top pick for deeper dive, including myself. I can't wait to see all of the games,



💷 Uncategorized 🛛 🗔 3 Replies Talk on Design, Service 🛗 June 11, 2019 🛛 💄 Karina Bhattacharya @ Edit



· Effects of assertiveness/dominance in group dynamic. I think most, if not all people, have experienced this if they work in groups. I find myself on both sides of the spectrum: I can give direction, or I can follow what other people are saying. In the latter, I usually assume that "diffusion of responsibility." If it's their problem, why should I feel like I can contribute to the group? I wonder if that's the reason why most inefficient group projects result in one person doing all the work Stereotype threat. This was probably the most profound example that I learned. If people feel like they're being marginalized, they may try to work even harder to fight the stereotype. That stress takes up their concentration and they do worse at the task. I've learned, that especially when I'm competing, I have to forget my weaknesses and the stress over beating my competitor. I would just have to be the best I can possibly be, and that would be my best effort I experienced most of these examples before in my life, but learning them in a classroom environment was so fulfilling. I could only ask for more lessons like this. The project meeting that followed was productive, as we set out some work to do for our project. Afterwards, we went on a tour of State Gym. It wasn't as big as the campus rec at UH, but they have some great facilities and resources. I need to figure out when I can go there On Saturday, we went to work on bikes at Val's. I got the impression, that most, if not all interns, had a great time there. I was the first person to choose a bike. I felt weird riding it at first, because I hadn't done so in years. I soon got accustomed and I'm hoping to use it to move around campus. Lucas and I worked together to make a storage device to store Val's many tires and wheels. We were basically just given one large and one small pallets to use. I think we

worked together well. We used both of our ideas to create the final design, and we both contributed to the building.

It's nice to find out that my building skills actually came to be helpful here in lowa.

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Later on Saturday evening, Andrew took some interns to Summerfest at Campustown. We came just at the end of the kids festivities, so we saw the results of the cutest dog competition (Winston, the champion is pictured below). I also saw three baby goats that were sleeping next to each other, and I thought that was very cute. The root beer floats that were being handed out were an added bonus. We got dinner at Fuzzy's, a Tex-Mex place (but is it Tex-Mex if it's not in Texas?). I liked the food there, and I think I will definitely return to Campustown to check out more of the other food recommendations.



Sunday's schedule was very fluid, as I did not have anything set planned for the day. I watched Dr. Kelly's XR lecture, and although some of the findings were things that I learned before, I did learn more on the second round of watching it. My roommate, and also project fellow, Vrinda, discussed with me some ideas for experiments that we would share with the group. I'll save those details for my notes, until we decide to go forward with one. I arrived early for today's C++ class, and I was nervous. I didn't know how to code, and when the instructor asked people to raise their hands if they had, almost all the interns did. I felt like I was asking questions that would seem so obvious to the other interns. I got over those fears, and the class went along fine. I tried my best not to fall behind, and I seemed to keep up with the content, which wasn't too much. He did say that we would be learning at a very fast pace, so I have to be able to learn quickly. I will spend the rest of this hour trying to nail down some basic concepts Uncategorized 3 Replies Thursday/Friday

🛗 May 31, 2019 🛛 🎩 Karina Bhattacharya

university student and having these resources available to me.

Following my last post yesterday, the REU interns took a pre-assessment for the REU program. I think this assessment could have been improved by the REU program coordinators creating a focus group of previous REU interns to evaluate proper questions for the assessment. I also think the survey project could use a larger staff. The Craft of Research class on Thursday was beneficial to me because I learned about good and bad research. This was particularly helpful because I learned that bad research exists in the academic community. If I become immersed in any type of writing, I tend to agree with everything a persuasive author is saying. Two years ago, I read Hobbes and briefly started to agree with absolutism, until I returned to my US government mindset. I tend to respect most academics, as they are experts in topics I know very little about, but some professors do conduct bad research. This Craft of Research class taught me some indicators that would help me identify bad research and to form analysis of particular issues that are presented accurately. Today has been an informative day thus far. I began the day by reading on the Meyers-Briggs assessment. The reading argued that the Meyers-Briggs test was popular yet not founded by evidence in the psychology academic community. We took the test, and to be honest, I'm not sure why we did. The test was not proven by researchers, but our program's purpose is promoting research. For the team work assessment following, we were encouraged to look past the results of the test, so I am confused on why we sought the test's results. As for the test itself, I received the same result as I did a few years ago. At the time, I personally had fallen into the trap of believing the test results to be true, because they captured some aspect of how I act. I know now that the test itself does not show the whole picture of a person's personality The ISU library research class was highly informative. I conducted a literary review before, and now I greatly appreciate knowing all of the resources that are available to students. I think that I can thoroughly research this menting the ISU databases with the University of Houston databases. I appreciate being a immer by supple

The VR technology tour expanded my appreciation to be researching at the VRAC this summer. I grew up in Maui, Hawaii, which had few computer science educational resources. My father, an Applied Business in Technology professor, has some of the most advanced devices at the only University/Community College on the island. VRAC has resources far beyond those offered on Maui. I was able to interactively experience VR/AR, 3D printing, and the C6. The resources at VRAC reaches far above any expectations I could have had of this facility. I feel fortunate to be researching here this summer. Uncategorized Question Que **First Few Days** 🛗 May 30, 2019 🛛 💄 Karina Bhattacharya Prior to beginning this REU, I had no expectations. I boarded a flight headed for a state I had never been to, people I have never met before, and at a university studying a discipline I had never explored. I was ready and willing to experience anything, although I was nervous. After my arrival, I was in a whirlwind of memorizing people's names and where they are from. I was overloaded with information, and it did little to help me set my expectations for the program. It wasn't until the dinner at Steven's house that I began to realize the nature of this REU. Steven and Elliot described an adventure of sorts, where strangers became best friends and where we could comfortably discuss new research that was unknown to us at the beginning of the summer. My nervousness still persisted, but I felt more assured in a program that had reliable experience Over the first three days, I went through orientations and tours with the other REU interns. I have clearer expectations for the program. I want to feel acclimated to the Iowa State campus, and be comfortable in exploring and using the different facilities. For my research project, I want to specifically know what I can contribute to the project. I want to answei • What am I good at? • What can I use from my background to provide something that the other team members can not?

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I also hope to place this whole REU experience in the context of how I can apply the skills I have learned to a job, and in the future, graduate school. I will keep reflecting on these skills and answering the above questions through my future blog posts. Uncategorized Que Leave a reply @Edit Post at Tech Workshop 🛗 May 30, 2019 🛛 💄 Karina Bhattacharya My first two days at Iowa State were overwhelming yet exciting. There was a lot of information pres ented, but I am trying to take care to listen to all the instructions and guidance. I've already gotten to know some of my fellow research ns, and I'm excited to spend the summer with them. I came to Iowa State for a educational learn

but I have the idea that I will also learn outside the classroom and research lab. What I hope to Learn • a • b • c Uncategorized Q Replies

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