

Francely Franco Bermudez

 projects.vrac.iastate.edu/REU2013/

Posts from me

Last day working in the lab

Posted on [August 1, 2013](#) by [francely](#)

This is probably the last time I will be working on the lab. In some way I feel sad about it but I got to admit that it feels nice that work is almost over. I want to thank Connie, Lanya and whoever I'm missing for their hard work on the shirts. They look awesome! Also today we got to see our posters for the first time and I feel very proud of the AR team for such a good job and thank you mentors for the feedback!

Today we invited few grad mentors and grad students over lunch! Thank you guys for spending some time with us! I feel like I need to hurry up with the paper, I need some help with it seriously. It is very complicated to be as specific and not write at the same time too many details.

Lisa just stopped by and said her goodbye to us. I AM FEELING SO SAD! I MIGHT CRY!! just noticed this is our last blog...I feel like this is over for real...Man I am officially going to cry. I will miss everyone in VRAC!

Homesick

Posted on [July 31, 2013](#) by [francely](#)

I officially miss my house, my husband and my cat. I can't wait to meet everyone back at home but I am also concerned about not seeing my friends from the REU. Tomorrow I officially start my semester but it has all been taken care of.

I find it quite difficult right now to write a coherent blog. Maybe I'll come back later and update it.

Endless wait...

Posted on [July 30, 2013](#) by [francely](#)

So this morning we made few touch ups to the text on our poster based on our mentor's recommendations. We still are waiting for the computer to run the code that gets the results. It is taking forever. But this is better than us counting manually thousands of numbers. I hope we can get this on time because it is not that we are far away from getting results, is just that we are waiting for the computer to finally compute what we need to see in order to make a graph and paste it in our poster. I am thankful to everyone in the REU for their support and patience during this weeks.

Data collection, poster, paintball and Grace Hopper Conference!

Posted on [July 29, 2013](#) by [francely](#)

We been having some problems to collect our data. Hopefully Sheneeka found a solution for it and we will begin testing immediately. The problem is that testing might take us no more than 4 hours. So we might spend the night at VRAC. But we also have some graph templates so it shouldn't take that long to put the data into a graph and paste it to our poster. The poster is almost done, only missing results. I am thankful that they gave us more time to turn in our final draft.

Paintball during the weekend was awesome. I was scared the first round but after it it got use to the thrill of shooting everyone in a safe environment. Sadly I have huge bruises.

Big news AR TEAM. Our poster got accepted to present at the Grace Hopper Conference! Thank you Rafael, Tim and James Oliver for the support!

Happy early birthday Craig!

Posted on [July 26, 2013](#) by [francely](#)

Happy birthday Craig! I love the concept of your birthday cake. Talking about other things, yesterday's game night was AWESOME! I got to play Dominion and Brawl for some hours. I totally forgot thrilled of playing video games. But I got to say it was very special for me to share my passion for video games with some interns. I will remember the game night forever!

I am glad Lanya is alive! I haven't seen her in two days and she lives with me!

Today I guess we will finish whatever we have left and then next week will be rush week. As my mentor Tim says (whip snap sound) for the rest of the week!

Thursday...

Posted on [July 25, 2013](#) by [francely](#)

Today I spent like an hour waiting for matlab to installed on my desktop computer. Now I need to learn how to use it to make one simple graph that excel doesn't allow me the freedom to draw. For the kalman filter I am still waiting for Rafael's email answer or for him to come back. I am totally lost with this. Thankfully Sheneeka and Christian are ahead of the game. THANK YOU GUYS!

I am excited for tonight's game night, hopefully a lot of grad students will show up.



I am a little bit more relaxed!

Posted on [July 24, 2013](#) by [francely](#)

So I was freaking out yesterday because my database with lots of pictures wasn't working properly. But we found out that is a small problem in the code. So nothing to worry about! I already sent the application for the Grace Hopper Conference after writing few drafts and receiving lots of help from our mentors Tim, Rafael and James Oliver. I still I'm falling behind in the filter code. Apparently I can't find the sum squared of difference...maybe is in the code, maybe not...we will see. The poster draft is almost done we just need results and maybe use better words. Our paper is not ready yet but I am confident we can turn in our first draft sometime on Friday.

I AM SO HUNGRY!

Collecting Data

Posted on [July 22, 2013](#) by [francely](#)

Today is the day that we start collecting data from our research. We still have few things we need to work on our application but we feel confident that everything is gonna be alright. Also we are still fixing our draft poster and we still need more pictures for our database. This week is gonna be a busy week. Finishing a poster, research paper, analyzing data and more.

BTW HAPPY BIRTHDAY CONNIE!



Presentation Day for UPENN

Posted on [July 18, 2013](#) by [francely](#)

Today we presented what we have done in our research to couple of REUs in UPENN and it was fun. We got a chance to know others people work and to share our experiences also. We also had lunch and lecture that was about autism. It was very interesting to realize that autism is a huge problem and that the number of cases is increasing overtime and that we need to attend the need of proper treatment for this patients.

For now I can say I feel tired. I haven't been able to sleep well this week. Apparently my brain doesn't understand that it can take a rest once in a while but I guess that is part of being stressed out. But anyways I feel confident that our project will give good results.

CAN'T WAIT TO GO EAT DINNER AT ANDREA'S PLACE! IT IS GONNA BE FUN!!

Spending another night in the lab

Posted on [July 16, 2013](#) by [francely](#)

Thinks have been very stressful today. So far I have been able to track 2 rigid objects but we still need more. Our poster draft still needs some work done but we are almost there. For today we should be able to load all of our models and calibrate them so we can test the application later.

Tomorrow might be even more stressful because again we need to prepare ourselves for presentation but I am guessing this time will be easier.

Blog from yesterday

Posted on [July 16, 2013](#) by [francely](#)

Yesterday was a busy day. We spent all day and part of the afternoon figuring out why the application couldn't load python. After that we did separate task and I started to take pictures of our objects in different places to see if with different lighting setting our number of matches changed. Tracking rigid objects is not an easy task.

We stayed until late in the lab working and I think today will be the same story. Hopefully we will finish our application between today and tomorrow.

Today is Friday!

Posted on [July 12, 2013](#) by [francely](#)

I feel so relief that is Friday! But still we have many hours of work to look ahead. Today we were given a list of items with task to complete the following weeks. It is good that we have a list so we don't waste our time doing other things and it is also better because that way we can divide our work load evenly between members.

Journal club was very interesting. I think that they kind of technology we read in the article might be useful but it seriously creeps me out the thought to have cameras everywhere recording and analyzing you for years. Also we had Alex and Frederick as guest speaker in journal club and they share with us what they are currently working on and talked to us about when they got to graduate school.

I am excited about going to the mall tomorrow!

It's my birthday!

Posted on [July 11, 2013](#) by [francely](#)

Today has been a wonderful day. When I arrived at VRAC I found a Happy Birthday banner and balloon located where I work and it was surprising. Later as the they went by I figured it out that I was thinking too much about the environment of our application and in fact that is the most simple one because we our suppose to superimpose the virtual object with our physical world. This is part of the basics and you forget things when you are nervous and thinking that we have 3 weeks left.

Then we went to a conference lunch at 12 . It was interesting but I confess that I missed the purpose of the demo they were showing at the conference. After we arrived at VRAC and they had a cake for me and sang happy birthday! So I am very excited about the rest of our day and I think I am starting to see the light in our research project.

Getting ready for coding!

Posted on [July 9, 2013](#) by [francely](#)

Today luncheon lecture was very fun and interesting. Our speaker for today was Eliot Winer. He talked about the many different paths that he took while he was studying and also talked to us about how sharks are fascinating. Lunch was very delicious because I ate a turkey sandwich.

The rest of the day hopefully will be research meeting and coding! I am undecided if I should go to the movies today or taco night. There is so much to do and not much time left. BTW my birthday is in 2 days!

New Application

Posted on [July 8, 2013](#) by [francely](#)

Today we have been working on creating our models for our application. Hopefully if everything goes as planned we will finish it by Friday. Also we have been studying lots of codes and discussing all the programs that we need in order to run everything successfully. For some reason I think that the weeks that we have left we won't be able to sleep because there is so many details in our research that I don't know if we will be able to keep up with it.

Presentation Day

Posted on [July 3, 2013](#) by [francely](#)

I totally forgot to blog again because of all of yesterday's rush to practice over and over our presentation. Today everyone's presentation went smoothly. I feel like I know a little bit more of what everyone has been working on. Hopefully all of the research teams will be successful at the end of the summer. Also I feel very proud of my team members because I know it has been hard to understand everything about augmented reality in such short notice.

SIX FLAGS AND CHICAGO, I'LL SEE YOU SOON!

Presentation week...

Posted on [July 1, 2013](#) by [francely](#)

Today my research group and I have been working on our presentation. Later in the day we are planning a meeting with our mentors to go over details about the presentation. Apparently we will be practicing endlessly for our presentation on Wednesday.

Yes I just mentioned the word presentation 4 times hahahaha...this is a way to remind me that I need to focus. Today we also have our first ethics course class...I have no idea how is it going to be, so I'm excited about it. Hopefully we will have lots of interesting activities.

I am looking forward for tonight's bowling game. My goal is to beat Christian and seek revenge on him hahahaha!

Work...work...work

Posted on [June 28, 2013](#) by [francely](#)

Today has been nothing different other than work...We are still working on our methods paragraph but hopefully we will finish it soon. Today James Oliver invited the AR team for some coffee. It was very nice to talk to him about our concerns and also he explained to us a little bit about graduate school. I am thankful for his guidance!

Delayed Post

Posted on [June 27, 2013](#) by [francely](#)

With so much going on I forgot to blog again. We spent all day long searching if our questions had been answered before and perfecting our hypothesis plus we started with our lit review. Today we are trying to finish once for all our lit review so we can start with our methods paragraph ASAP! A lot of rush but it will be all worth it at the end.

BTW has anyone seen Rafael? We need him!

Long day...

Posted on [June 25, 2013](#) by [francely](#)

During the day we have been reading articles, analyzing them and making our taxonomy for our research hypothesis. After turning our first draft we worked with our second draft and hopefully tomorrow everything will work out fine. I am not worried that much about the lit review because we have summarized our papers very well and we only need small information about them. I am looking forward for the end of the week to get some rest and have some fun.

I miss Maya modeling class! BTW great modeling projects everyone!! And finally AR team won, and as a prize we got ISU coffee mugs!!

Less class, more time for research

Posted on [June 24, 2013](#) by [francely](#)

Today's talk of how to give a presentation was very useful and it gave me an idea on how me and my team mates should organize ourselves. I have to confess that the idea of giving an oral presentation scares me a lot but I think that we Stephen Gilbert's advice we should be fine. In one hour our modeling project is due and surprisingly I feel confident about it...

Later in the day we are having research meeting to discuss about few details about this weeks deadlines. For some weird reason I don't feel stressed out...

LATE!

Posted on [June 23, 2013](#) by [francely](#)

I thought that I posted my blog on Friday but it seems like I forgot. During Friday we got the opportunity to try out Google glass and it was amazing! Other than that we had HCI course which it was more interesting than previous class. Unfortunately modeling class is over but I am looking forward to spend more time on research with my team mates.

On Saturday we went to the farmers market and it was fascinating. The downside is that I didn't buy anything because I can't bring them home with me ☹

Next week is going to be crazy... A lot of things due...and my husband is coming to visit.....

Kingdom Hearts fan!

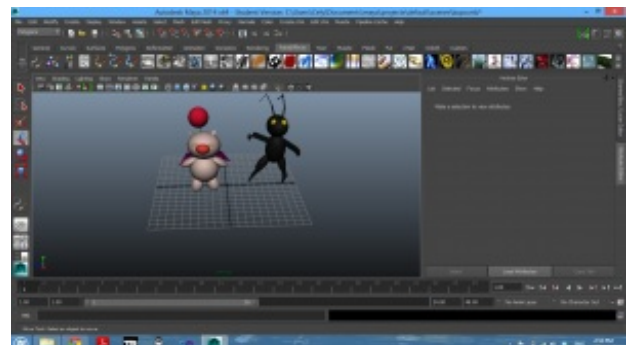
Posted on [June 20, 2013](#) by [francely](#)

As a kingdom hearts fan I got to create a moogles (kupo) and a heartless. I think I am getting the hang of modeling but still think that I should stay with logic, math and programming. So far our research is going forward. Although I feel a little bit anxious about next week deadlines. I am actually looking forward to go eat dinner with everyone soon!

More modeling and MS defense!

Posted on [June 19, 2013](#) by [francely](#)

I am very happy that I got to attend to Jordan Herrema's MS defense. His defense was about abstract AR elements being more suitable for part identification than concrete AR elements. I thought that his work was interesting and it also gave me an idea of how complex AR can be and how scary is to defend a thesis.



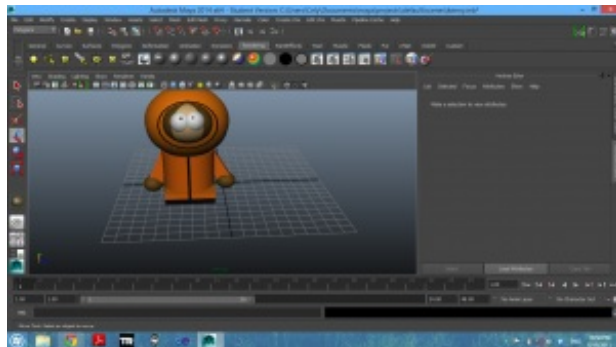
Another thing was that for modeling class we had to make a character. I first started with bender but at the end it was a failure. I couldn't get his legs to bend and he ended looking awful. So I decided to make Kenny instead! Enjoy

my work!

Cat and AR!

Posted on [June 18, 2013](#) by [francely](#)

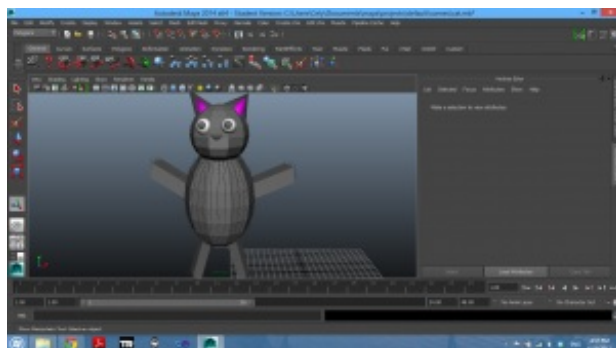
Today during our modeling class we were assigned to make an animal and I chose a cat. It was very fun to make but sometimes I feel like Maya has some glitches. Also during luncheon lecture we learned a little bit more of robotics and how they were testing intelligence behavior in robots and it was very interesting. After delicious lunch my group and I met with our mentors and we discussed more papers and the possibility of where our research is going. I am very excited about the next steps that we have to make especially next week. I have never been so interested in a research topic before and I think this program is helping me realize important stuff that I didn't know about myself.



MAYA!

Posted on [June 17, 2013](#) by [francely](#)

Today we started our modeling class. Our class instructor Ted was really nice, and he seem impressed by our willingness to learn things faster. He gave us an assignment to draw two snow mans, but I made a snowman and a bird. Currently we are working on our final project for OpenGL and reading more articles for our research. This week seems promising!



Happy!

Posted on [June 14, 2013](#) by [francely](#)

So basically the weekend has arrived!! I am very happy because I get a small break from work!! But still can't wait for skyzone on Saturday!! Today has been similar to previous days, a lot of work not much rest but is all worth it.

Also, today I made an amazing discovery about Jose. HE WAS IN A ROCK BAND DURING HIGH SCHOOL!! I love getting to know all the interns!!



8 weeks left!?

Posted on [June 13, 2013](#) by [francely](#)

During Lunch Lanya mentioned that we have 8 weeks left of the program and all of the sudden I feel that I need to pick up pace in the research project. But I think that is fantastic that this REU has courses for us and it keeps us busy because they are preparing us to be successful in the future. Yesterday we did light painting and it was AMAZING!



Charlie's Angels

AR so far

Posted on [June 12, 2013](#) by [francely](#)

Yesterday I found out that my way of reading articles is not as efficient as I thought. But I am confident that I will be able to get the hang of it soon. Today we continued with OpenGL and we made some progress on our planetary system. I feel like time is going by so fast that there is barely no time to do all things right.



Can't wait for the weekend to arrive! I want to have lots of fun!

OpenGL

Posted on [June 11, 2013](#) by [francely](#)

Yesterday we presented our Edamon project and I think everyone was pleased with our work. Also we got to see cool stuff in our research using natural feature tracking.

Today was our second day programming in OpenGL. The planet assignment was fun and I kept experimenting with the parameters to see my solar system go crazy. Apparently, today my team will learn new codes for natural feature tracking and we are expected to use it with a solid object.

Dreaming with natural feature tracking

Posted on [June 10, 2013](#) by [francely](#)

The third week has started and I already have a long list of assignments waiting for me! I feel like I need some sleep and that the day needs to have more than 24 hours! But the good thing is that I am really enjoying researching augmented reality and in the end all the effort is worth it!

I think the word that has popped out everywhere in our assigned articles is natural feature tracking.... I keep listening to it even when I go to sleep natural feature tracking, right Sheeneka and Christian??

Screaming goat video!

Posted on [June 7, 2013](#) by [francely](#)

Today during lunch my friends showed me this video about goats that scream like people, and I got to say it is one of the most hilarious thing I ever seen in my entire life! So I thank you guys for sharing such wisdom towards me hahaha...

I have to congratulate my team mates Sheeneka and Christian because we completed successfully our first research task. And I hope it will continue like this for the rest of the summer. Currently I feel more confident than before about our research problem, even though it might seem difficult, my passion for research is growing thanks to the program and the mentors.

Looking forward to go to the gym today!

Posted on [June 6, 2013](#) by [francely](#)

So far this has been a normal day to me for example C++ programming, lectures, research etc... But I did like a lot the lunch lecture about 3D video that captures your face from different angles and it analyzes it. The PhD student was very inspiring and had a deep knowledge about his topic. It amazes me how passionate he was about his work. I hope to feel the same way in my future work.

Goals for the end of the week is to finish all the programming projects assigned and work on research together with my team mates.

I can't believe is June 5 already!

Posted on [June 5, 2013](#) by [francely](#)

So far my team mates and I have adjusted our schedule for all the work ahead of us. I feel like we make a great team, and communication has not been an issue. I am looking forward for the next social activities to see if I can interact with all of my other friends who might be starting to feel overwhelmed by all the research we have to do in 10 weeks.

I really don't have much to share because I have lots of assignments due for next week. My mind doesn't seem to be able to think about anything else at the moment.

Lunch lecture!

Posted on [June 4, 2013](#) by [francely](#)

A lot has happened to me during the day. I forgot to bring my ISU card with me, meaning I couldn't ride the bus with my friends. So I had to walk alone in the rain to VRAC. I actually got lost along the way but I managed to find Howell thanks to technology. The programming class today was more interesting and I feel very excited about our game program due next week.

Lunch lecture was very interesting. I always thought that since I started college without knowing what to do, maybe that would affect somehow my future opportunities. Listening to Jim Oliver's story thought me that is not the case for everyone. I guess now I feel more confident about myself and I'm ready to meet with my group and mentors this afternoon.

June 3

Posted on [June 3, 2013](#) by [francely](#)

Saturday's rope course was better than I expected because other than having fun the activity provided a learning experience for all of us. I felt connected to all the other interns. I could say that after a week with them I consider

them my friends.

Sunday was a busy day. Sheeneka, Christian and I began to read research articles in hopes that we would understand the basic concepts of augmented reality. Sheeneka and I went to Walmart, it was like an adventure because we were trying to figure out by ourselves how to get there using the bus. But we definitely bonded hahaha.

Today has been easy so far. We got our first C++ course and I am very pleased with our C++ instructors. They were very helpful and very detailed in explaining us the basics. We also get to meet with our mentors today, and hopefully we will start getting to learn the programs that we need to use for the duration of the research.

First impression of the program

Posted on [May 31, 2013](#) by [francely](#)

So far my first impression of the program has been a positive one. I am amazed of how well the program is organized and how are they preparing us to succeed. I am fascinated by all the new technologies that the HCI program has. It has been a wonderful experience so far and I hope it will be like this all summer long.

My expectations for the program are to be able to contribute with my skill in my research and to succeed at it. Likely I want to improve my programming skills and I want to apply something useful to the programming. I have no experience in integrating the information about the side of the humans with technology and I think it will be a great opportunity to finally try something more realistic. I hope that the program will provide me with the necessary tools for graduate school.

My First Blog

Posted on [May 30, 2013](#) by [francely](#)

Today they are teaching us how to blog. I think is cool. I am actually looking forward to work on the research projects but I have to confess I am feeling a bit scared.

Can't wait for lunch!