

JESSICA DROUJKO

AERONAUTICAL ENGINEER AND ATHLETE

On top of the waves

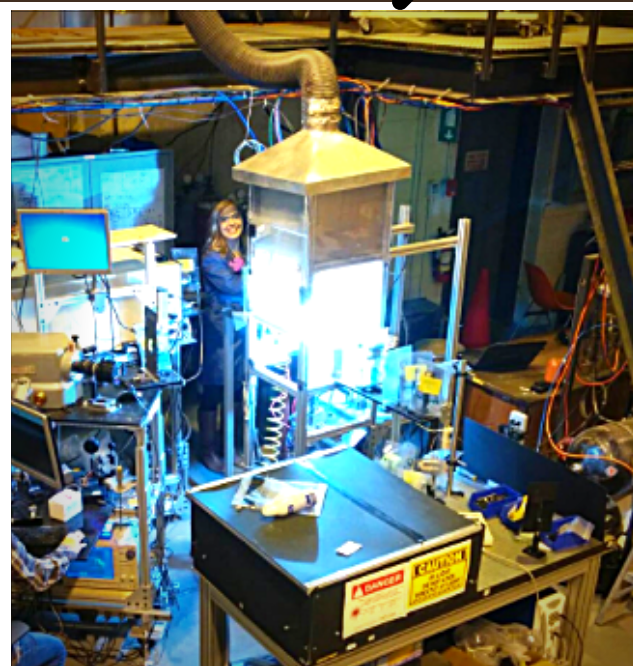
I'm 24 years old and from **Niagara Falls, Canada**. My family immigrated to Canada from Ukraine 1 year before I was born. I did a bachelor in **Mechanical and Aeronautic Engineering** at **McGill University** in Montreal Canada. I competed at the Freestyle Kayaking World Championships 3 times. Now, I'm currently doing my master in Mechanical Engineering at **ETH Zurich** in **Switzerland**. My master thesis deals with thermoacoustic instabilities in gas turbine engines. I am using Large Eddy Simulation to predict these instabilities and ultimately **allow companies to burn less fuel and pollute less**. At the same time I'm training for the Adidas Sickline Extreme **Kayak World Championships**. And I just started a new project called **STEMinine**. It's a YouTube channel that features women in STEM and talks about all things STEM related.

WOW!



A tale of patience and perseverance

In the past I did experimental research, which drives me insane because there are **ALWAYS** unforeseeable problems. Experimental work requires a lot of patience and perseverance. Now, I'm going computational research, which takes a lot of patience because I need to wait for a few days before the super cluster spits back my simulation. So I guess the setbacks and waiting times really burst my bubble. But perseverance rewards me with good results! And I think that's what keeps me going.



This is a photo of me operating an Aluminum flame Bunsen-type burner.



Surprise question round: **Why do animals make different sounds?**

Oh wow! Well I'm no biologist but my best guess is that you know how everybody has a different voice because we're all different people? That's because our vocal chords are different. But animals are even more different than people and they are even different from each other. So because we're all different species, we all make different sounds.

Russian meat salad with a twist

8 small pickles
1lb ham
1-2 small cucumber(s)
8 eggs
1 can of peas, drained and washed
3 small medium potatoes
1½ cups mayonnaise

Cook the potatoes but do not overcook (you don't want mashed potatoes). Hard boil the eggs. Cut the eggs, potatoes, ham, cucumbers and pickles into small 1/4in cubes. Add in the peas, mix all together with mayonnaise.

The twist is - I usually eat it vegetarian!



@stemininevlog



@stemininevlog



STEMinine