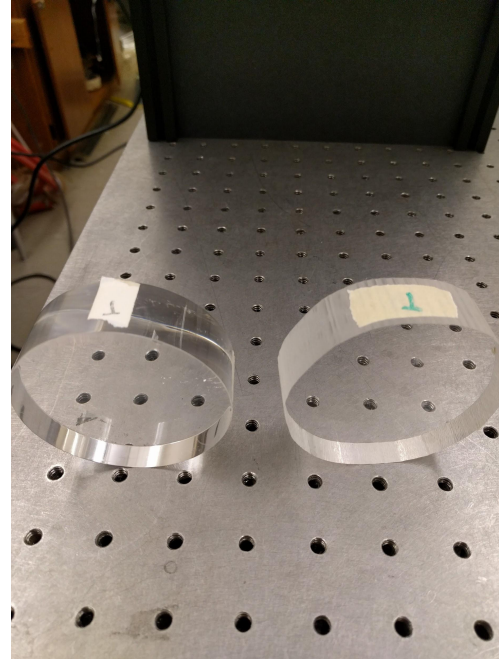


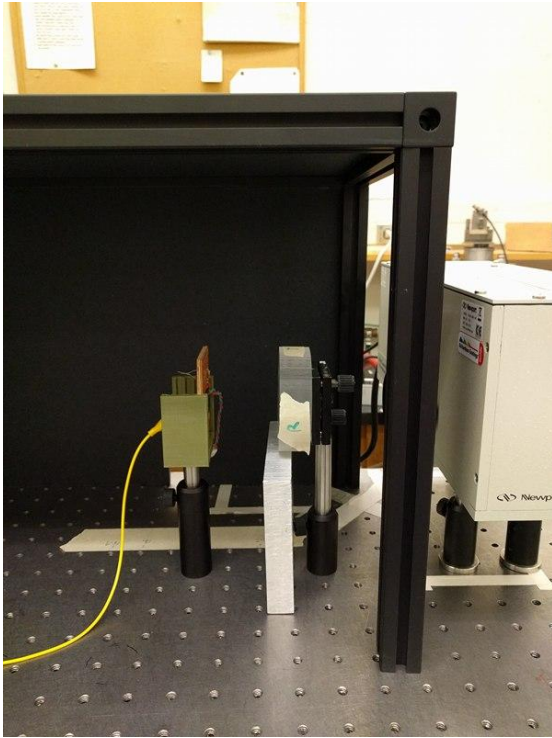
Weekly Update

October 17, 2017

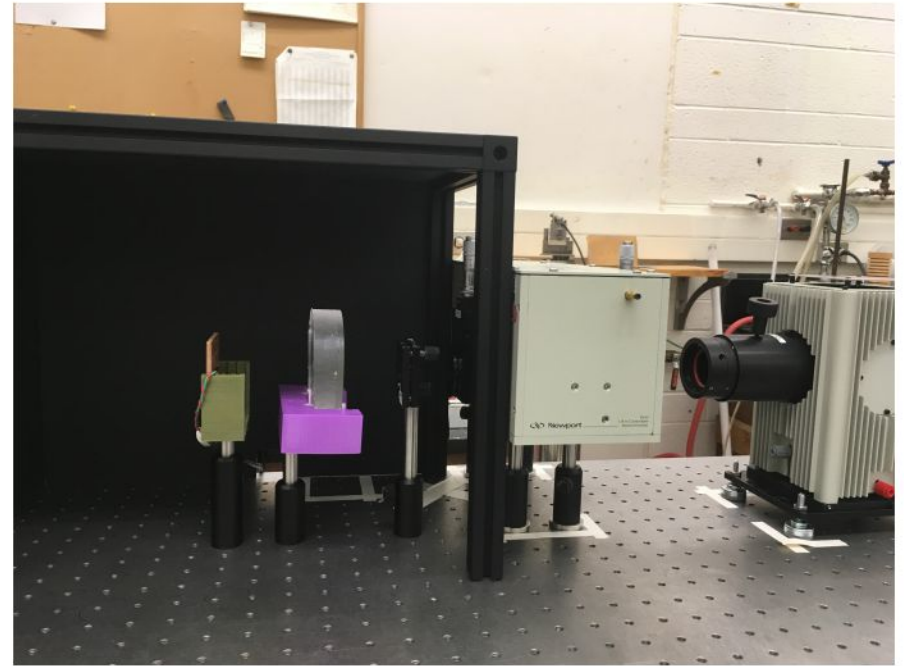
Acrylic Pucks

- Left : “clear”
- Right: “rough”
- 8.1 cm distance
- 25 nm increments
- 100 points, 5 trials each
- Didn't have room to fit puck stand
- Lamp warmup time of ~20 min
- T and R denotes Top and Right
- Centred by checking beam at 600 nm

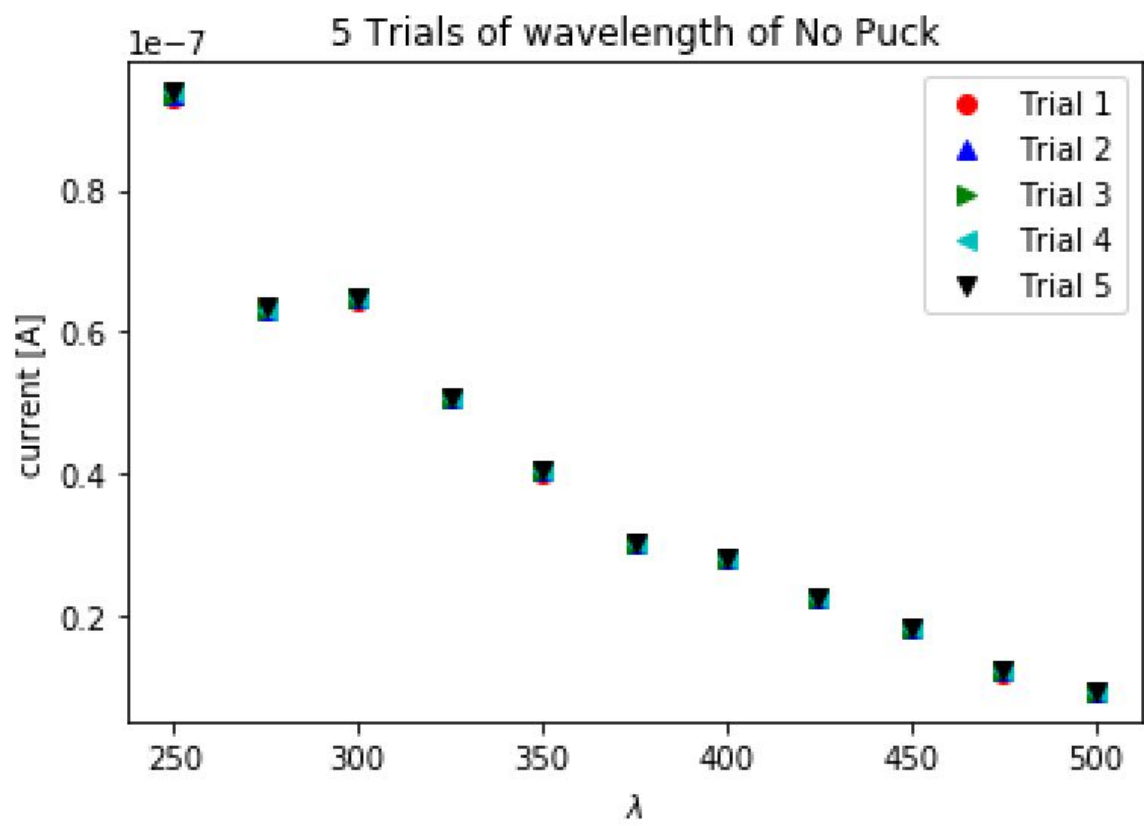


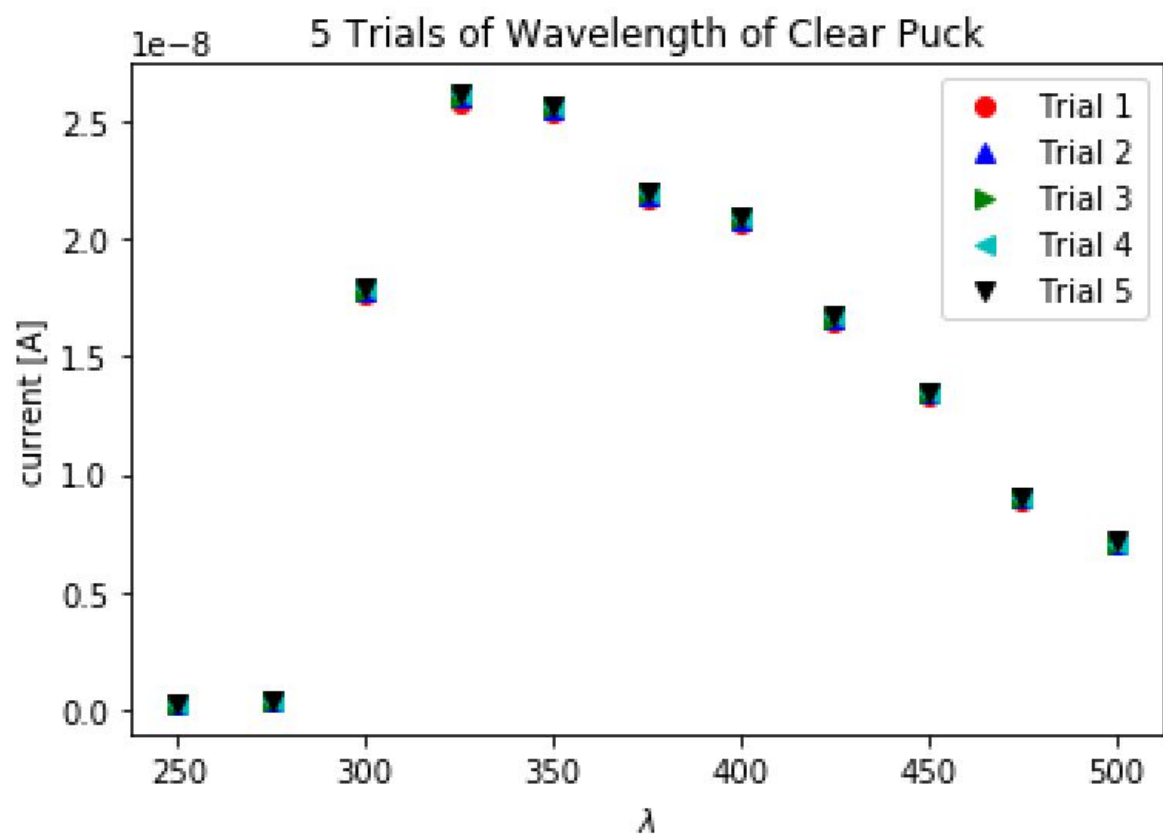


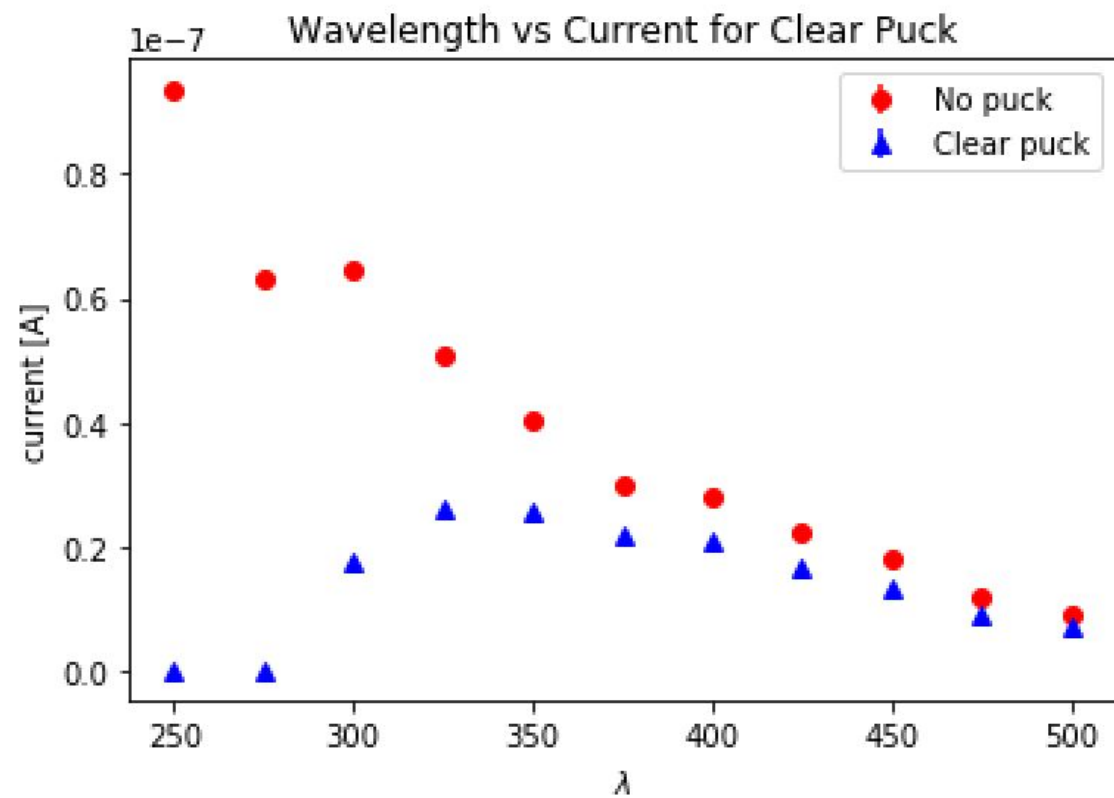
My setup

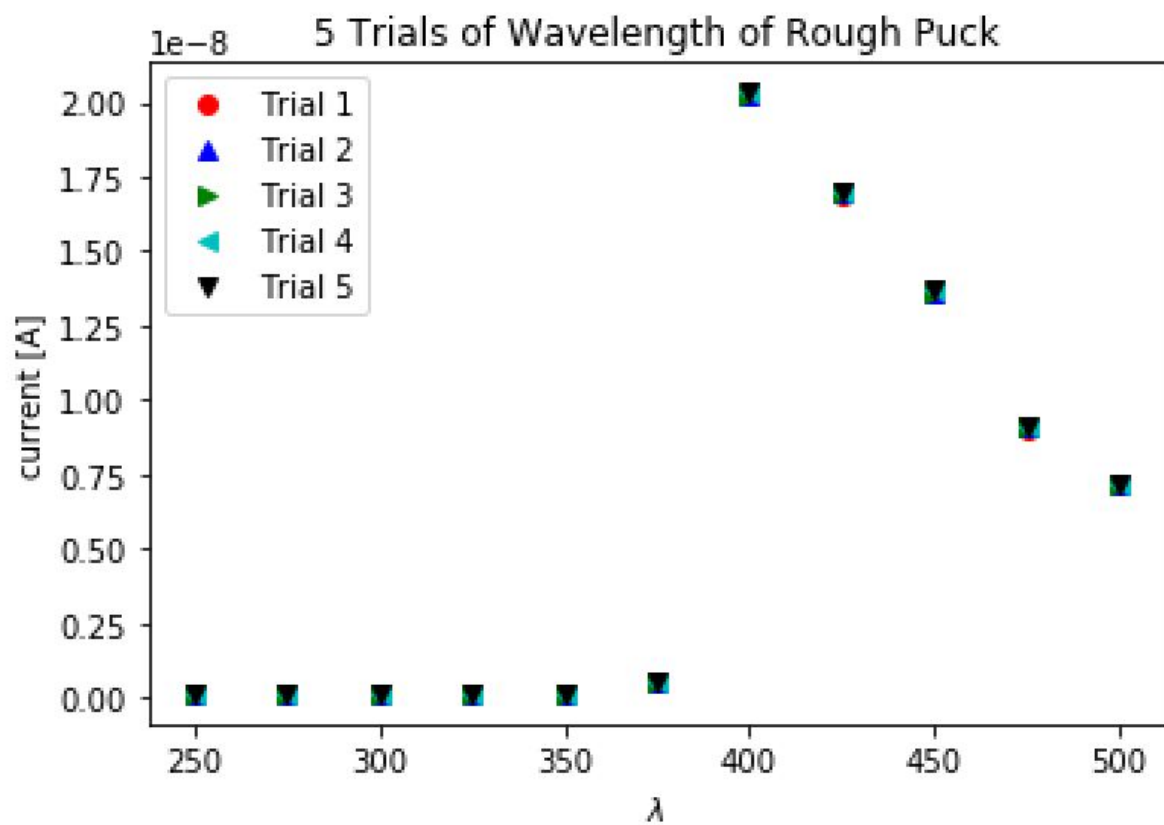


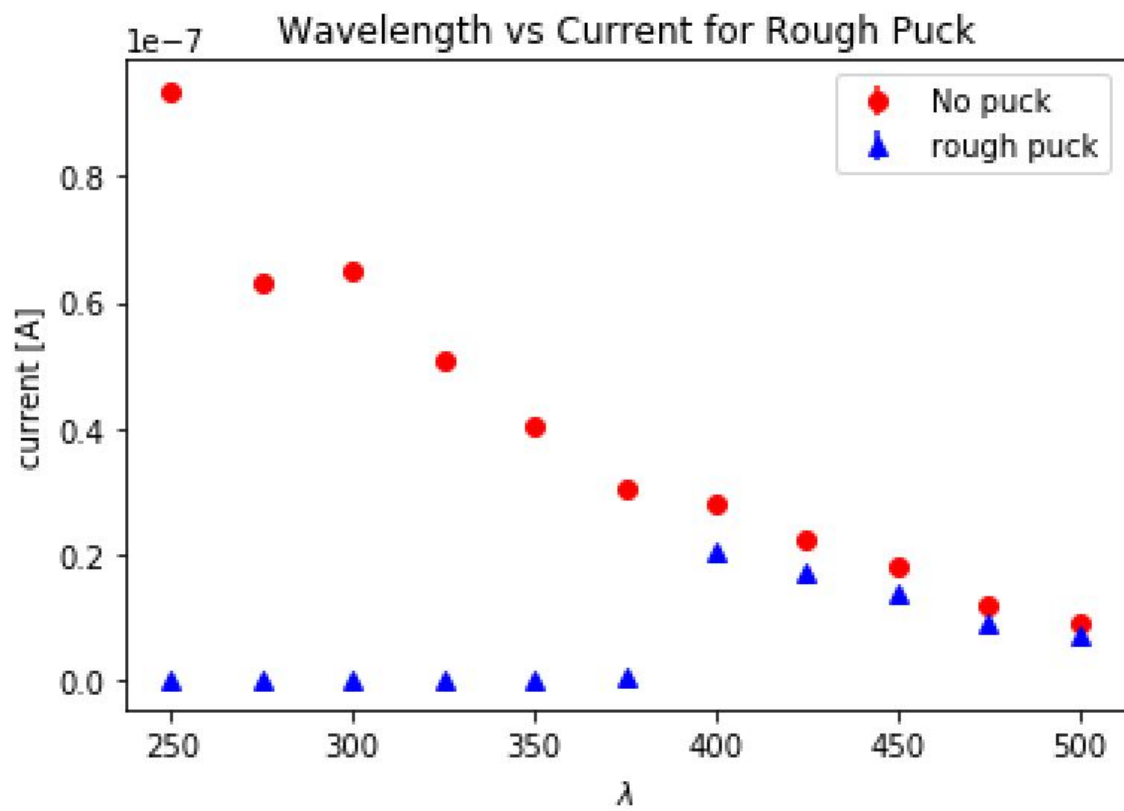
Elizabeth's setup

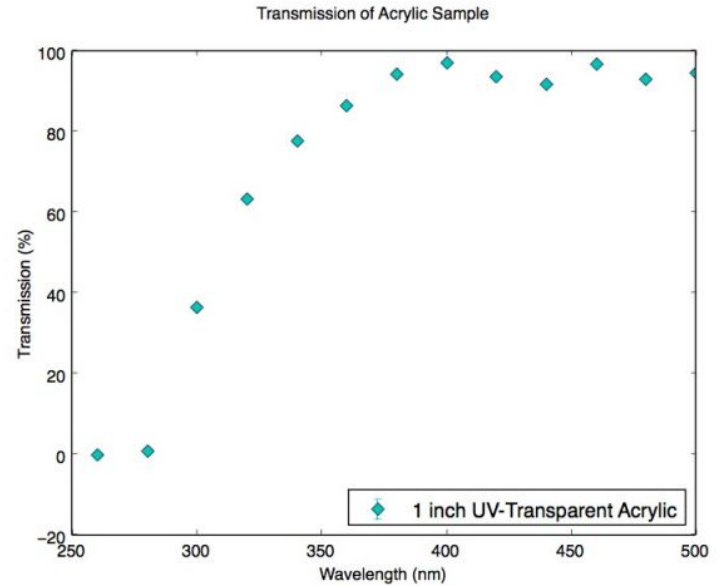
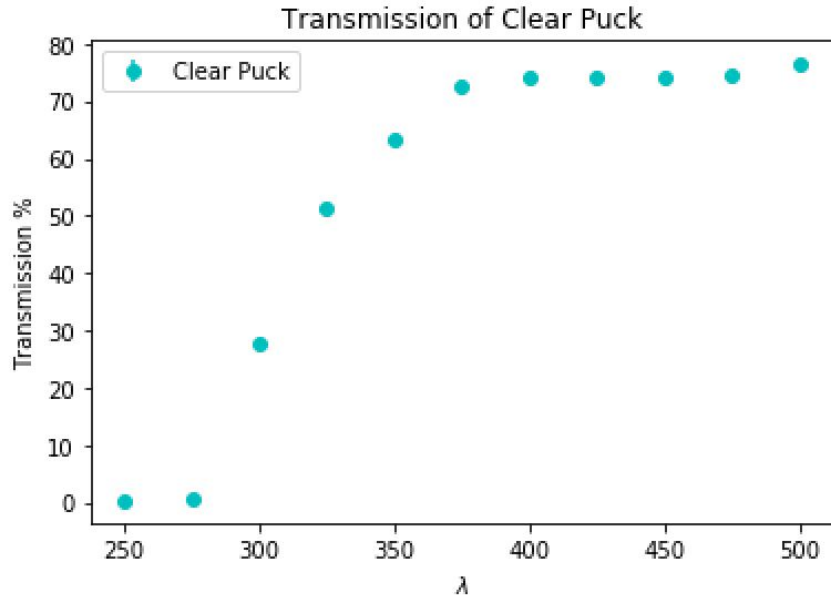






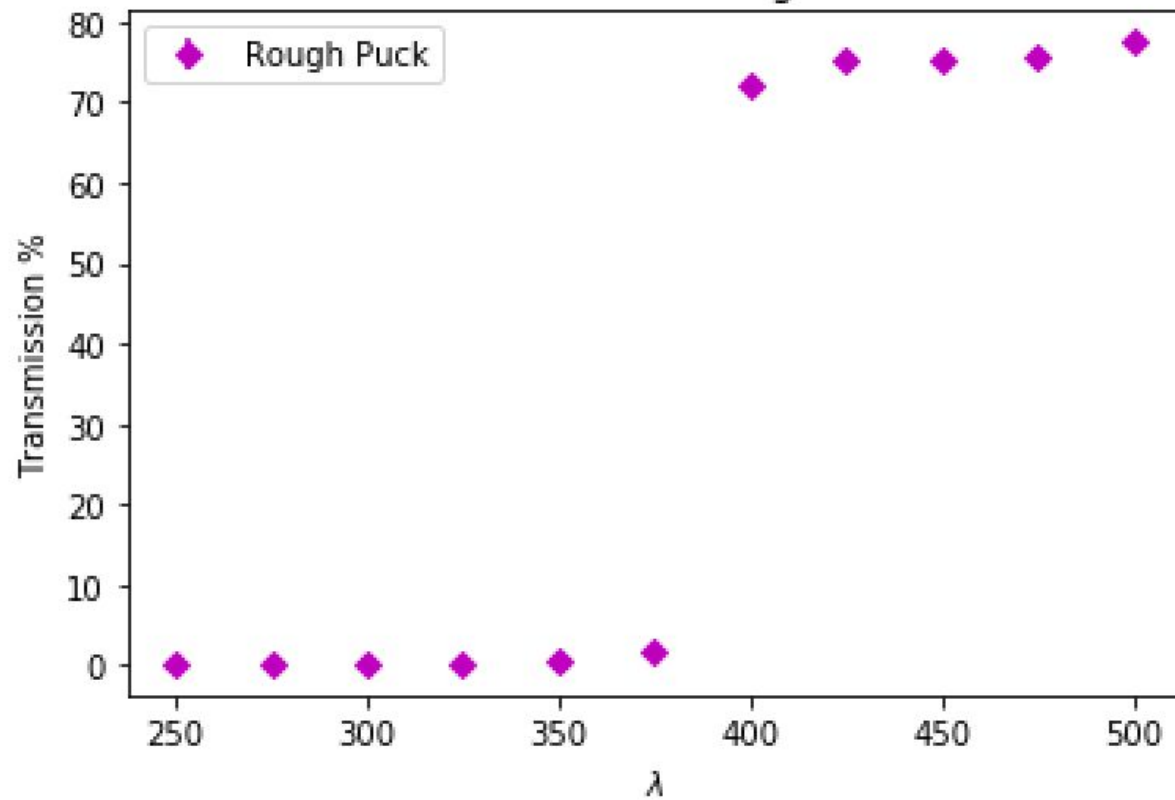




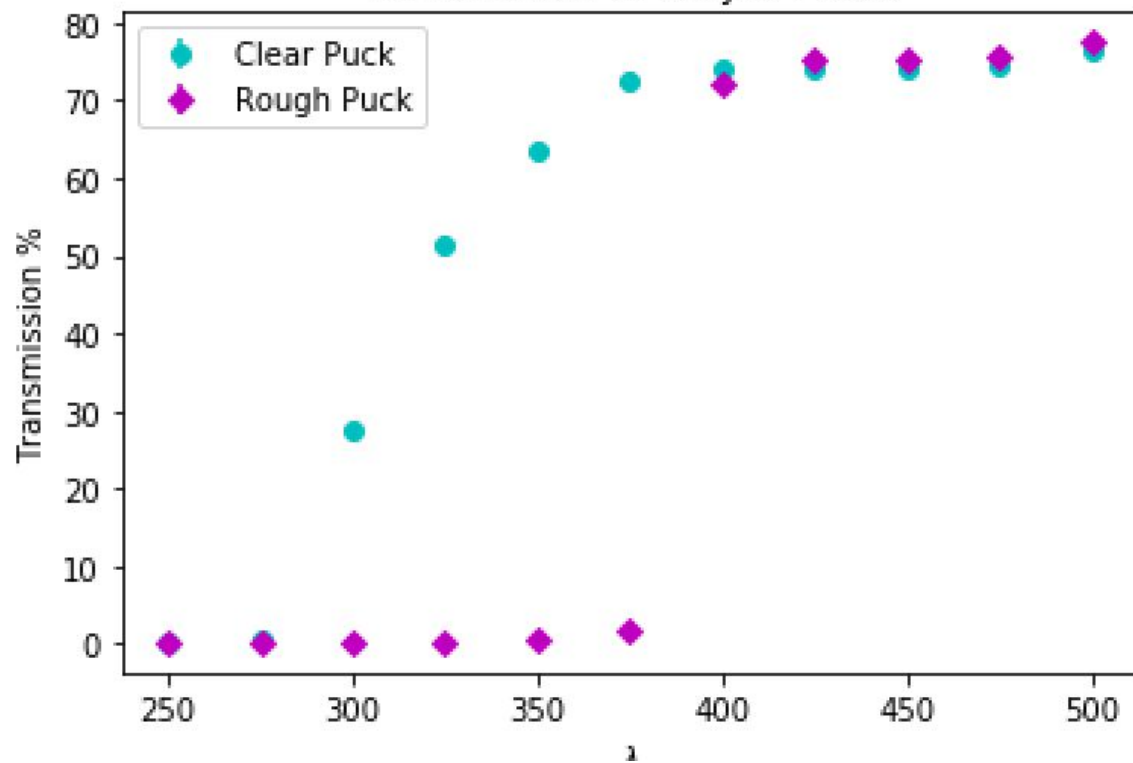


- More transparency because of where she placed the puck
 - She had gap, I put directly in front
- **Both results agree NOT UV-Transparent**

Transmission of Rough Puck

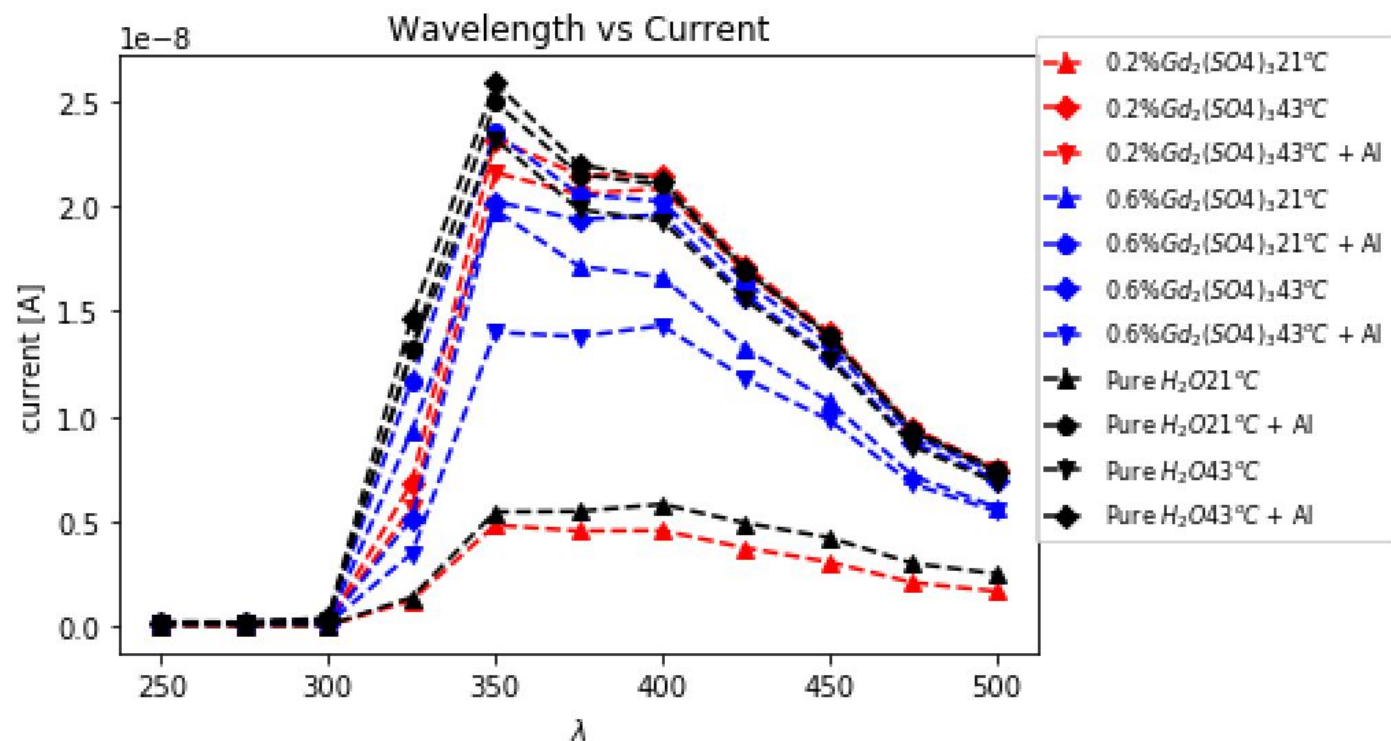


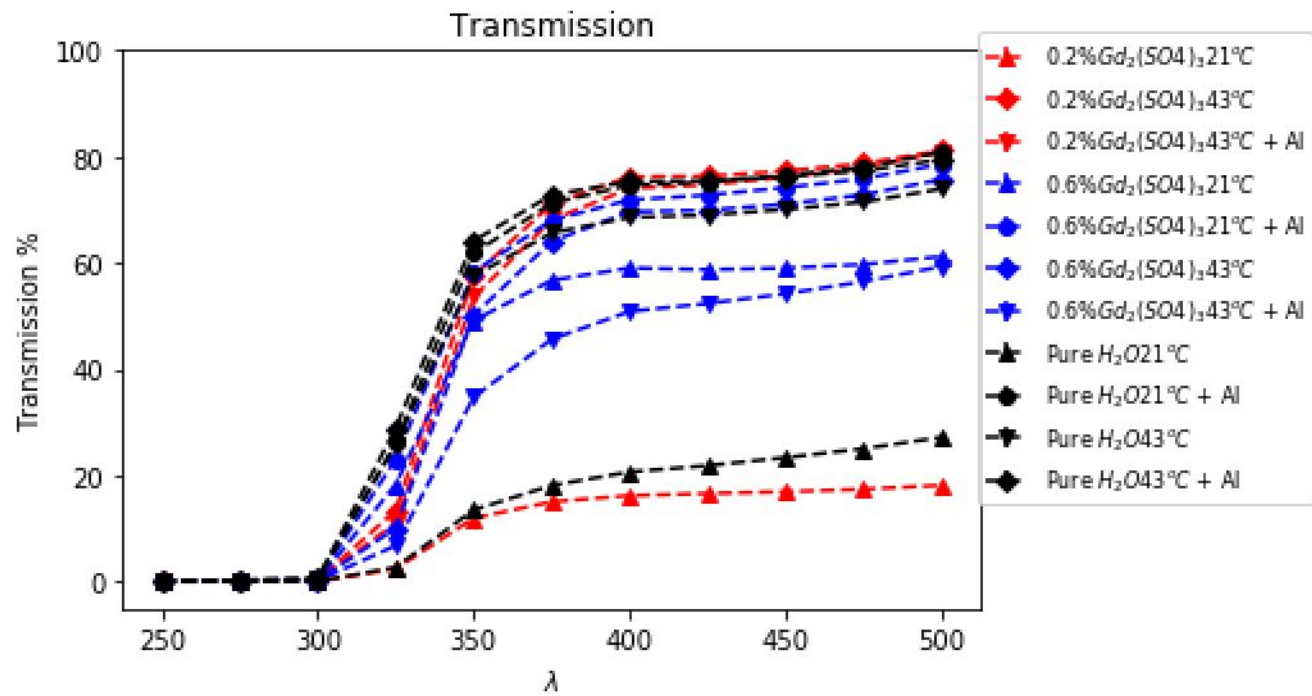
Transmission of Acrylic Pucks

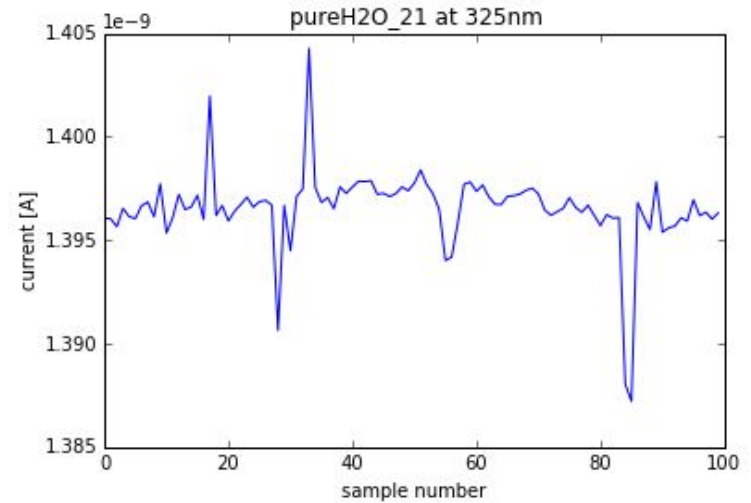
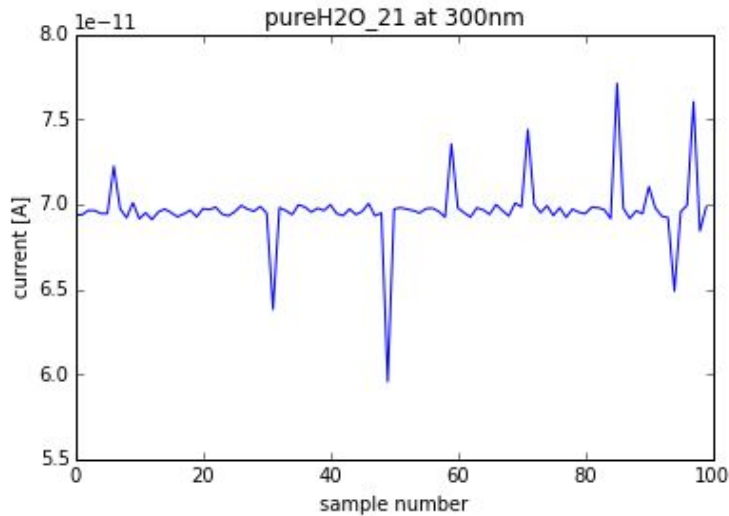


Liquid media

- 11 liquid media: Pure Water, Gadolinium Sulfate ($\text{Gd}_2(\text{SO}_4)_3$) 0.2% and 0.6%
- Each includes one sample with aluminum and without
- Includes 2 temperatures 21°C and 43°C
- 0.2% $\text{Gd}_2(\text{SO}_4)_3$ at 21°C and 43°C (no Al on the 21°C)
- 0.6% $\text{Gd}_2(\text{SO}_4)_3$ at 21°C and 43°C, with and without Al
- Pure Water at 21°C and 43°C, each with and without Al







- Weird things... not sure what this is
- All happened to the same sample
- Bottom right is 500 samples instead of 100
 - Did a previous 100 and same result
 - Wanted to see if it reoccurs

