

COACHING SESSION AGAUR-FECYT ERC StG 2022

--- 2nd Phase - Interview ---

Lluís Jofre Cruanyes
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UNIVERSITAT POLITÈCNICA
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INTRODUCTION & OUTLINE

Who am I?

- Lluís Jofre Cruanyes, Professor in Dept. Fluid Mechanics at UPC
- Director of the *Multiscale Fluid Mechanics Lab*
- ERC StG 2021 – SCRAMBLE (PE8 Products and Processes Engineering)
- Beatriz Galindo Distinguished Researcher

Outline:

- 1.- Preliminary work
- 2.- Interview slides
- 3.- Interview speech
- 4.- Setup and connection
- 5.- Interview day

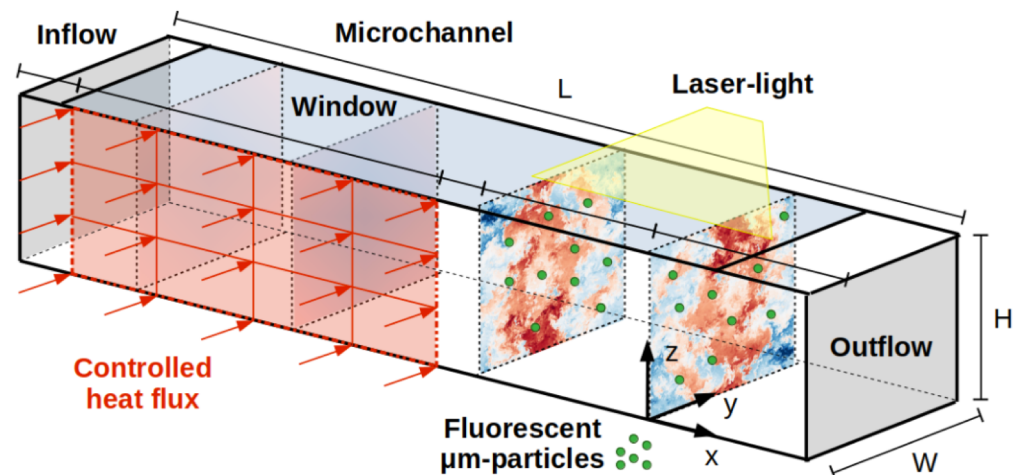
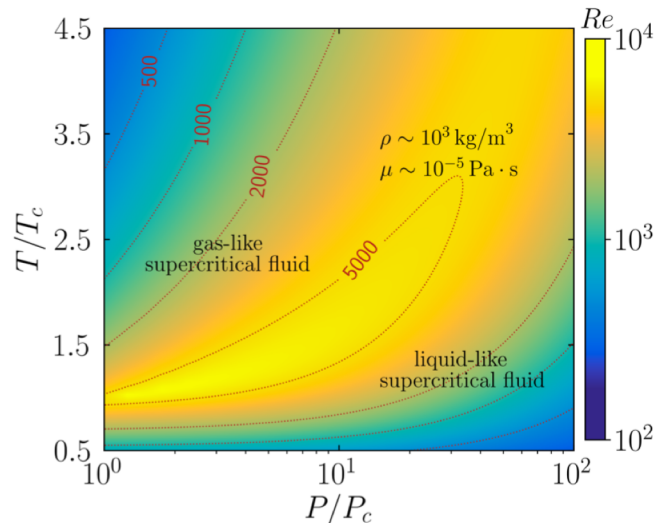


PRELIMINARY WORK

What? Ideally, 6-8 weeks before Interview

- Perform exhaustive review of published work related to the project
- Define in more detail the project ... detect weak points
- Try to identify potential Interview Panel Members:
https://erc.europa.eu/sites/default/files/document/file/erc_2021_stg_panel_chairs.pdf
- Work (if possible) on initial result ... demonstrate that the idea is plausible!

Exploratory case: supercritical CO₂ in
microchannel $u \sim 1 \text{ m/s}$, $D \sim 100 \mu\text{m}$



INTERVIEW SLIDES

What? Ideally, 4-6 weeks before Interview

- Carefully read the instructions for your panel
- Professional style, clear concise ideas, visually pleasing
- Slide 1: Motivation, Objectives & Background ... novelty & importance
- Slide 2: Scientific & Engineering Approach ... why is plausible
- Slide 3: Project Methodology & Management ... how to do it



Turbulence-On-a-Chip: Supercritically Overcoming the Energy Frontier in Microfluidics

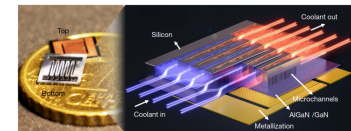
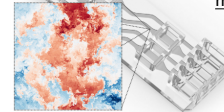
SCRAMBLE - Lluís Jofre Cruanyes

ERC StG Interview - 11 October 2021

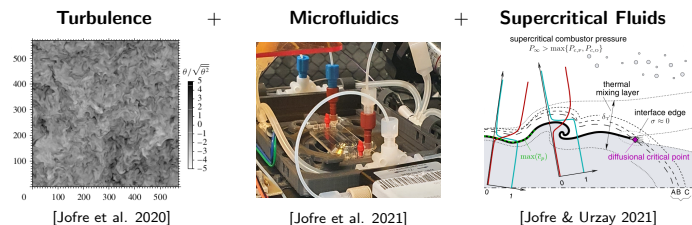


Motivation, Objectives & Background

Turbulence-on-a-Chip: miniaturize turbulence to overcome energy frontier in microfluidics ... to revolutionize power generation & heat transfer applications



New Flow Physics ■ Rapid Turbulence Transition ■ Test Prototypes (TRL 4)



INTERVIEW SPEECH

What? Ideally, 2-4 weeks before Interview

- Carefully read the instructions for your panel
- Approach it as “I would do it even if I don’t get funding” ...
... enthusiasm is key, you have to convince them!
- Talk slow and smoothly, use intonation, slides & speech 100% synch
- Prepare a written script and memorize the structure (not words)
- Rehearse in real conditions (camera with friend/colleague listening)
... rehearse
... rehearse
- Rehearse in real conditions ... I rehearsed more than 20 times!
... at least once a day in real conditions
- Do not feel afraid of changing script and slides ... iterate them
- Prepare potential questions and answers ... ask colleagues for help

SETUP & CONNECTION

What? Ideally, 1-2 weeks before Interview

- Carefully read the instructions for your panel
- High quality image & sound ... invest some money if needed
... you don't want Interviewers annoyed because they can't hear/see you!
- Prepare office setup and connection ... test several times:
<https://www.adweek.com/convergent-tv/adweek-guide-professional-video-conferencing-work-from-home/>
- White background, good illumination, business professional attire



INTERVIEW DAY

What? Ideally, 1-2 hours before interview

- Carefully read the instructions for your panel
- Dedicate the day to the interview ... cancel all other meetings/activities
- Check that computer, camera, microphone, software, internet works
- Relax ... dedicate some time to walk and enter “focus mode”
- Follow the instructions of the panel leader
- Enjoy the process of presenting your slides
... Interviewers will resonate with you!

Questions & Answers:

- Respond in a positive attitude and to the point
- Utilize rock-solid arguments
... this can be trained by preparing potential questions and answers
- Most likely, they will go for the weak points ... which you already know 😊
- If you don't know the answer ... be honest, say that you will look at it

THANKS FOR YOUR ATTENTION

Contact & further information:

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- Website: <https://sites.google.com/view/lluisjofre>
- Twitter: [@FluidMechLJC](https://twitter.com/FluidMechLJC)
- ERC StG: <https://erc.europa.eu/funding/starting-grants>

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