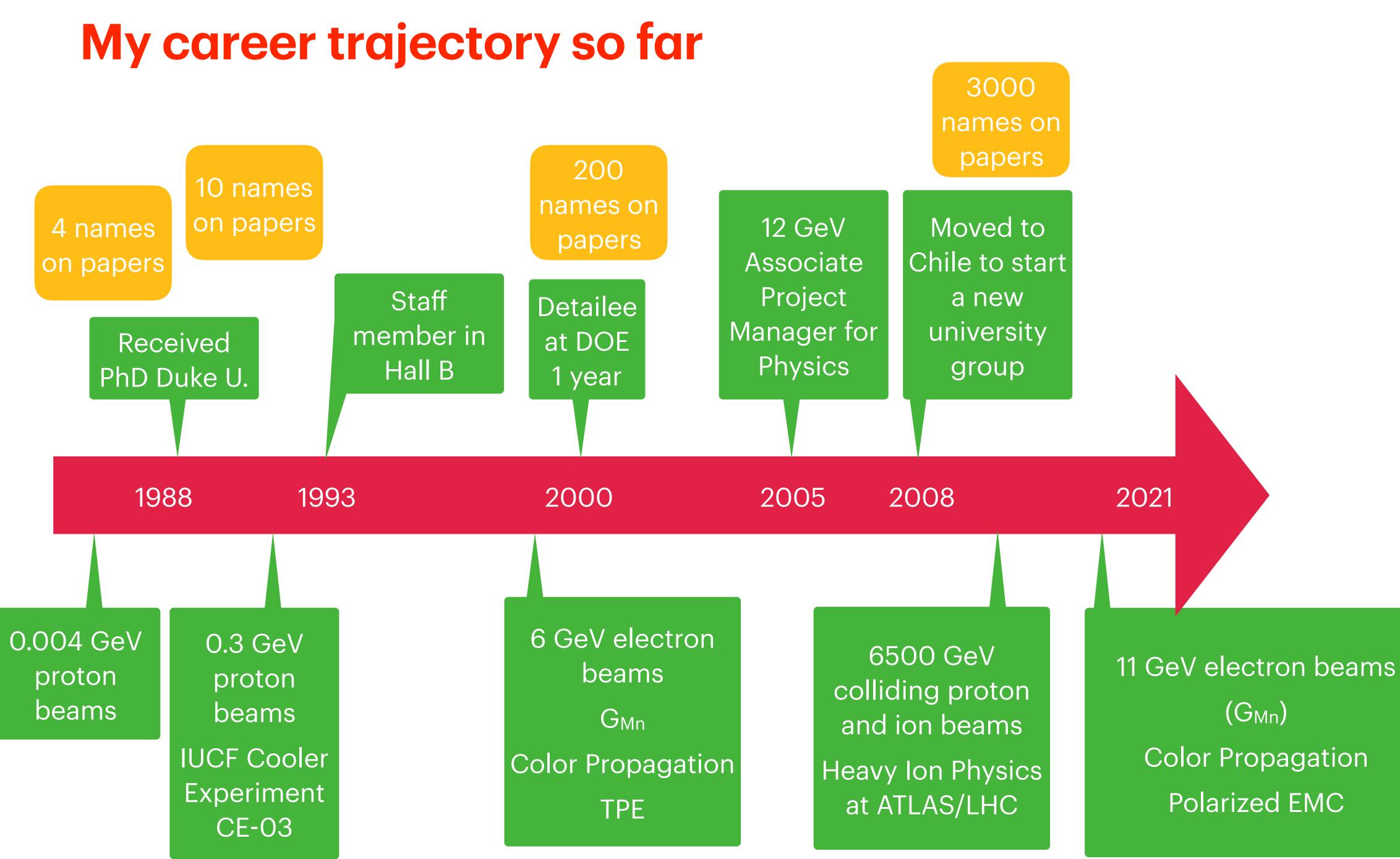
# Towards a Collaboration Focus

Will **Brooks** 

**CLAS Chair Election Presentation** 

WB1June 2021 v1







**Our CLAS Research Group** 





## Antonio RadicBruno BenkelMSc grad, PhD studentMSc student



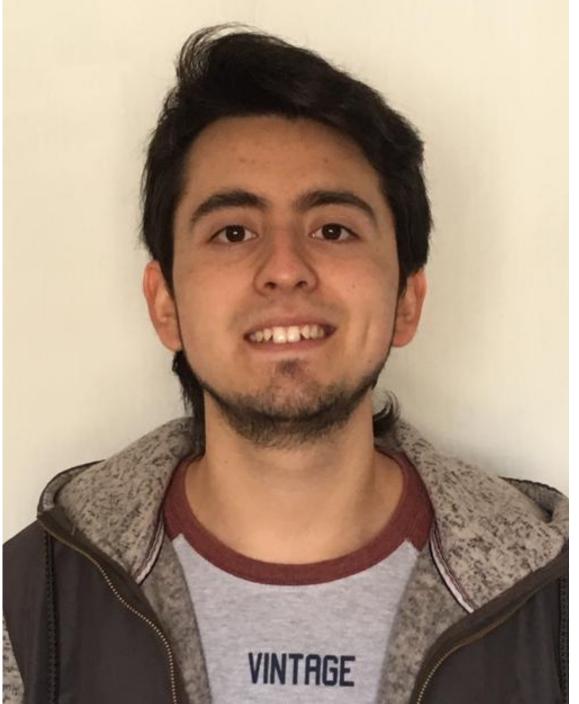
Taisiya Mineeva Professor



Hayk HakobyanMy Ahmed El AlaouiJorge LópezProfessorSenior ResearcherHumboldt Fellow



## Andrés BórquezMarilú MoraJuan Pablo GarcesMSc graduateMSc graduateBS graduate









#### Camilo Castro BS student

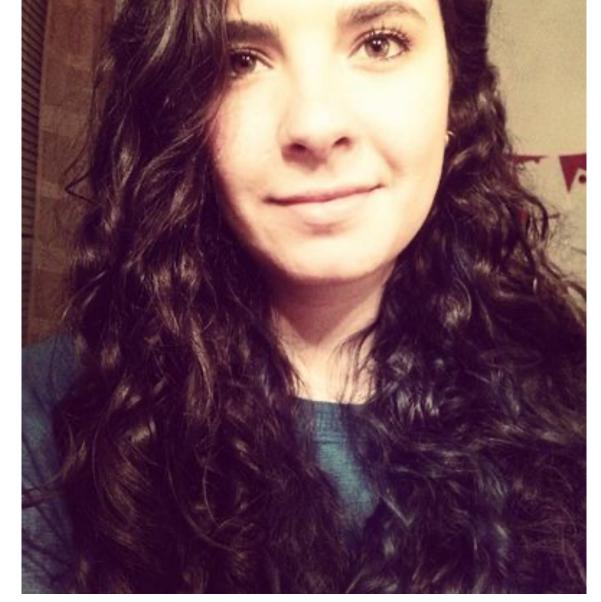


René Rios Engineer





### Esteban Molina MSc student



### Gabriela Hamilton MSc student





#### Iñaki Vega Engineer

### Milan Ungerer MSc graduate

### David Aliaga Engineer

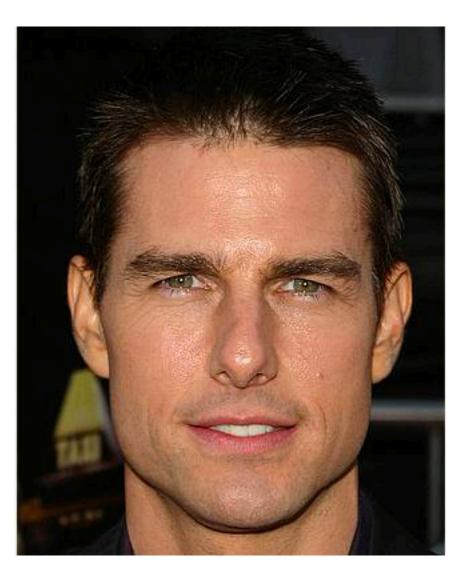
### Former students currently working in CLAS



Orlando Soto INFN Fellow now, Professor at U. de La Serena soon



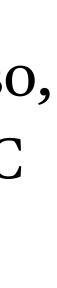
Miguel Arratia Professor U. C. Riverside



Sebastian Morán PhD Student U. C. Riverside

### From my candidate statement

- Work toward maximizing efficiency in technical processes such as detector calibrations, in analysis reviews, and in ad hoc reviews. In this effort I would draw on the successful experiences and practices from other collaborations, when practical.
- Work to recruit new research groups to CLAS12. This may be an opportune time to do so, particularly for groups who want to transition from hadron beam experiments to the EIC over the next decade.
- Work to increase the visibility of the CLAS Collaboration in other communities of Nuclear Physics and High Energy Physics, and enhance the resources available to communicate the CLAS physics thrusts to new outsiders.
- Work to support and promote the careers of young people in CLAS, from the stage of being a student through the first permanent job in academia or industry.





- physics collaboration ATLAS at the CERN LHC.
- In ATLAS I was a physics working group convener for three years, I was a run fourth paper. I am ATLAS National Contact Physicist for Chile and I have had many it.
- What are some differences between CLAS and ATLAS?

Work toward maximizing efficiency in technical processes such as detector calibrations, in analysis reviews, and in ad hoc reviews.

• One of the strengths I would bring is that I have been fully immersed in another excellent

• As a mainstream HEP collider collaboration, ATLAS has "collaboration" truly perfected. coordinator for all heavy ion running (3 weeks) one year, three ATLAS physics papers were completely the work of my three students, and I was on the editorial board for a meetings with all of the past collaboration spokespersons, including on several of their visits to Chile. Message: I have seen the inside of the collaboration and I know a lot about



- In CLAS, and at JLab in general, anyone is allowed to write and defend a proposal.
- to "your data" and "my data." Only a few aspects are centralized service task management, shift taking, ad hoc reviews.
- In ATLAS, there is a strong Collaboration focus. The things that are centralized are simulated and get permission for it from the leadership. Experts specify things like particle ID definitions, which everyone must use. Experts design the trigger

Work toward maximizing efficiency in technical processes such as detector calibrations, in analysis reviews, and in ad hoc reviews. What are some differences between CLAS and ATLAS?

• This is a tremendous strength - anyone with high talent can quickly become known. • In CLAS, however, there is a strong Run Group focus. There is a strong tendency to refer

organized that way for the good of the whole collaboration. Examples: experts run the simulations and do quality control, not individuals; individuals propose what should be characteristics, in collaboration with physics groups. The calibration of more than 100 million detector channels takes 72 hours, vs. in CLAS where it depends on the size of the run group, and can take 2 years for small run groups, reflecting badly on CLAS and JLab.

- few months? Would a more structured format help?
- Long view vs short view

Work toward maximizing efficiency in technical processes such as detector calibrations, in analysis reviews, and in ad hoc reviews. What am I proposing to do?

• I propose to identify inefficiencies and their root causes, then work toward removing the inefficiencies. Example: analysis reviews. We have a database of analysis reviews that allows study of time required for review. Why do some take 3-4 years, and others only a



### Work to recruit new research groups to CLAS12

- CLAS12 provides such an amazing opportunity! Large acceptance spectrometer, particle ID via a RICH, fantastic quality electron beam, wide open PAC system where anybody can propose something new.
- There is plenty of room for new ideas and new people. Those new people also bring new service work strength that can build the collaboration.
- For new people who care about the future of their students' careers, there is no better place to learn how to do EIC physics than in CLAS12.



### Work to increase the visibility of the CLAS Collaboration

- Neither CLAS, nor even Jefferson Lab, is widely known in the mainstream HEP community.
- Even in the US NP community, awareness of the CLAS and JLab program could be much higher.
- The Speakers Committee is trying to improve that, and they are doing a great job.
- I think we can further enhance the resources available to communicate the CLAS physics thrusts to new outsiders, for instance, by developing high-quality standard slides and images that are widely available for talks, *aimed at newcomers*.
- We can also have a more deliberate and focused effort to place CLAS people on DNP committees, where they can network.



- We do this piecemeal already, by various support efforts such as student+postdoc meetings at the CLAS Collaboration meetings
- It would be even better if we have a "lifecycle" mentality student through first permanent job - and to do it systematically for ALL CLAS young people.

Work to support and promote the careers of young people in CLAS, from the stage of being a student through the first permanent job in academia or industry.

### Conclusion

- Work toward maximizing efficiency in technical processes such as detector calibrations, in analysis reviews, and in ad hoc reviews.
- Work to recruit new research groups to CLAS12.
- Work to increase the visibility of the CLAS Collaboration.
- Work to support and promote the careers of young people in CLAS, from the stage of being a student through the first permanent job in academia or industry.

## Thank you for your attention!