Rebeca Gonzalez Suarez - Teaching and Supervision

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Formal training in teaching and learning in higher education

- o Supervising Students for Degree Projects. March April 2019, Uppsala University (SE). (2 weeks).
- o Academic Teacher Training Course. September October 2018, Uppsala University (SE). (5 weeks).
- o Supervising PhD Students. September December 2018, Uppsala University (SE). (3 weeks).
- Supervising student presentations. 27-29 August 2018, Uppsala University (SE). (2,5 days).
- o Student-centered teaching and learning. 4 December 2018, Uppsala University (SE). (3 hours).
- Mathematics didactics in the ESO (Didáctica de las matemáticas en la ESO). Fall semester 2003, Universidad de Oviedo (ES). (6 credits).

Teaching experience

University courses

o (2019 -) **Teacher**. Lectures, problem solving sessions, exam, for the course *Modern Physics 5.0 c*, at the Department of Engineering Sciences, Uppsala University. Course code:1TE078. Semester: Spring.

Schools

- o (2019) **HASCO2019 Summer School**. Teacher: Introduction (21- 26 July) University of Goettingen, Germany.
- o (2019) PIER Graduate Week, **Scientific colloquium** "When will the LHC come full Circle?" (23-26 Sep) DESY, Hamburg, Germany.

Supervision of PhD students

PhD student supervision:

- Olga Sunneborn Gudnadottir (2019-) main supervisor, hep and data science, partially funded by the Uppsala Centre for Interdisciplinary Mathematics (CIM)
- Jonas Steentoft (2020-) (co-supervisor)
- Thomas Mathisen (2018-2019) (co-supervisor)

I am a member of the **Network for Research Supervisors** in Uppsala University. Uppsala University offers courses in supervision of PhD students for faculty and as a part of these courses there is a study visit to a senior PhD student supervisor to observe a supervision session. I have received the following visits for Supervision Observation:

- o Stephan Wagner (October 21, 2020) observed supervision between me and Olga (via Zoom).
- o Niklas Wahlström (April 14, 2020) observed supervision between me and Olga (via Zoom).
- o Marina Corbella (November 8, 2019) observed supervision between me and Olga.

Supervision at the Bachelor and Master degree levels

Master students

- o Olga Sunneborn Gudnadottir (2019), Uppsala University. Thesis Title: Exploring selections across channels in Dark Matter searches with top quarks at the ATLAS experiment of the LHC, [link].
- o Isis Marina Van Parijs (2013), Vrije Universitet Brussel. Thesis Title: Measurement of the single top tW associated production in the dilepton decay channel in proton proton collisions at a center of mass energy of 8 TeV, [link]

Ongoing Master thesis supervision:

- o Rohini Sengupta (2020) co-supervised with Suchita Kulkarni
- o Jakob Lundström (2020) co-supervised with Juan Antonio Aguilar-Saavedra

Subject Reader (Ämnesgranskare)

o Edvin Eriksson (2020) supervised by Richard Brenner

Project students

- o Rohini Sengupta 15HP (January 2021) "Long-Lived Particles at the FCC-ee"
- o Mario Alves Cardoso 3 HP (June 2020) "Machine Learning Introduction"
- o Daniela Romero 3HP (May 2020) "Physics Opportunities of a 100 TeV Proton-Proton Collider"
- o Olga Sunneborn Gudnadottir 3HP (Jan 2019) "Single Top Phsyics"

Ongoing:

- o Daniela Romero 10HP (2020)
- o Claudia Rafaela de Sousa Goncalves 5HP (2020)
- o Mario Alves Cardoso 5HP (2019-2020)

Other

I was a **CERN summer student program** supervisor in 2012 (Isis Marina Van Parijs) and co-supervisor in 2013 (Ivan Shvetsov), both projects related to single top physics.

In 2020, I was a part of the supervisory team of Honey Gupta, for her project titled "Deep-compression for HEP data" within Summer of Code 2020, [link].

Production of teaching materials and publications

I have contributed to the IPPOG website, e.g. (links below)

- How to build a salad bowl accelerator.
- Activities with liquid nitrogen.
- Build your own cloud chamber.