**Caterina Doglioni** Dr., Date of birth: 27.07.1984 [198407273427], Pronouns: she/her

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**Education**

2003-2008:Undergraduate studies: Universita’ di Roma ’Sapienza’, Italy.

* Master’s Degree, final marks: 110/110 Cum Laude, GPA: 29.7/30.
* Bachelor’s Degree, final marks: 110/110 Cum Laude, GPA: 29.2/30.

2008-2011: D. Phil. Degree (16/12/2011), University of Oxford, Merton College, UK.   
Thesis title: Measurement of the inclusive jet cross section with the ATLAS detector at the LHC. Supervisor: Prof. Amanda Cooper-Sarkar.

**Employment**

2015-present: Associate Senior University Lecturer (Biträdande lektor), Lund University.75% research, 25% teaching. Reader (docent) since 30/08/2017.My financial support from Lund University in 2018 is 897.034 SEK. This includes salary and teaching compensation, and respective overheads.

**Past and ongoing grants obtained in competition**

2019-2023:VR Project Grant,Lund University, Real-time Strategies and Precision Searches for Dark Sector Particles, Funded (4 years), 1100 kSEK/year.

2016-2021:ERC Starting Grant, Lund University, Discovery strategies for Dark Matter and new phenomena in hadronic signatures with the ATLAS detector at the Large Hadron Collider, Funded (5 years), 1.269.000 EUR.

2015-2019: VR Project Grant for Young Researchers, Lund University, Searches for Dark Matter and New Phenomena with the ATLAS detector at the Large Hadron Collider and beyond, Funded (4 years), 800 kSEK/year.

**Postdoc stays**

2011-2015: Senior research and teaching assistant (Maître-ass.), University of Geneva, CH

**Prizes, fellowships and awards**

2018:Sten Von Friesens Pris, Royal Physiographic Society in Lund, *for the advancement of measurement methods in particle physics and for the ambition of strongly linking particle physics and other disciplines*

2018-2011: [Full PhD funding](https://www.theguardian.com/education/2009/apr/14/eu-research-students-univerity-grants) fromscholarships by various foundations from Italy, UK, US.

2011: Thesis nominated as an outstanding contribution by the University of Oxford, published in the [Springer Theses series](http://www.springer.com/gp/book/9783642305375)).

2009:Perkins prize for Best performance for 1st year PhD student in Oxford particle physics.

2003-2008: Full scholarship at the [Collegio Universitario Lamaro Pozzani](https://www.collegiocavalieri.it/)**,** funded by the IT National Federation of Holders of the Order of Merit for Labour, hosting < 15 selected Italian students/year.Winner of INFN scholarship for physics graduates in particle physics (ranked 1st in Italy).

**Pedagogical training and courses** (5-week equivalent)

2018-: Part of [Mentoring for Change](https://www.science.lu.se/internal/support-and-tools/mentoring-programme) program, Lund University

2016: Readership preparation course, Lund University

2015: Learning And Teaching in Higher Education (LATHE) course, Lund University

**Teaching and course development**

2015-: *Lund University.* Course responsible for [Particle Physics, Cosmology and Accelerators](https://www.lunduniversity.lu.se/lubas/i-uoh-lu-FYSC14), Bachelor’s degree at the Natural Sciences faculty. Co-teacher of various courses, including graduate-level course on [Jupyter notebooks](https://github.com/mlund/jupyter-course) and Master’s level course using [ATLAS Open Data](http://opendata.atlas.cern/).

2012-: Teacher and LU contact at the [International Hadron Collider Summer School](http://hasco.uni-goettingen.de/), Goettingen

**Supervision**

Main supervisor of a postdoc (William Kalderon 2016-now) 2 PhD (Eric Corrigan 2016-now, Eva Hansen 2016-now), a Licentiate, 6 Master’s, 7 Bachelor’s students (Lund University), co-supervisor of 5 PhD students (Lund University/UniGe) and 12 CERN summer students (Lund University, UniGe), Mentoring of work experience for female high school students at CERN.

**Review and editorial assignments:**

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| Since 2016 | Reviewer of international grant proposals |
| Since 2016 | Reviewer for the European Journal of High Energy Physics (JHEP) |
| Since 2018 | Reviewer for the European Journal of Physics C (EPJC) |

**Experience of communicating research finding with stakeholders/end users:**

2018: [LU press release](https://www.lu.se/article/fysiker-forfinar-sokandet-efter-mork-materia) on research on real-time analysis DM searches, interviews to radio and science magazines (Italy/Sweden).

2016-:Lund University responsible for the IPPOG Masterclasses in Particle Physics. In 2018 I started hosting the [Masterclasses for the UN International Day of Women and Girls in Science](http://www.hep.lu.se/masterclass/), (open to all genders). [LU Press release](https://www.lu.se/article/ungdomar-far-chans-att-jaga-higgspartiklar).

**Synergistic Activities:**

2019: Organizing committee of 2-week [Institute Pascal workshop](https://indico.cern.ch/event/793125/) on Real-time analysis, in Paris

2019: Proposer of 2-week workshop on Axion-Like particles and hidden photons, at [MITP](https://www.mitp.uni-mainz.de/call-for-proposals/).

2018-: Invited with other 15 young LU faculty to the [LMK Foundation](https://lmkstiftelsen.se/) Idea Forum. Led to the submission of a funded interdisciplinary [Pufendorf Institute](https://www.pi.lu.se/en/) Advanced Study Group on Real-time analysis with the faculties of Physics, Social Sciences, Law, Engineering.

2018-: Convenor of [High Energy Physics Software Foundation](https://hepsoftwarefoundation.org/) [Trigger and Reconstruction working group](https://hepsoftwarefoundation.org/workinggroups/recotrigger.html) (150 physicists)

2014-2018: Founder and organizer of the [ATLAS/CMS Dark Matter Forum](https://twiki.cern.ch/twiki/bin/view/LHCDMF/WebHome) and [LHC Dark Matter Working Group](https://lpcc.web.cern.ch/content/lhc-dm-wg-wg-dark-matter-searches-lhc) at the LHC Physics Center at CERN (300 physicists)

2017-: Coordinator of the [SMARTHEP](http://smarthep.hep.lu.se/) researcher/industry network on real-time analysis, re-submitted to ITN-MSCA-2019 call.

2017-: Lund co-PI of the [INSIGHTS](https://insights-itn.eu/) researcher/industry network, on statistics and machine learning for industry and society (granted within ITN-MSCA-2017 call).

2011-2014: Member of the ATLAS Collaboration Board Chair Advisory Group, Member of the Recognition Task Force.

**Selected professional memberships and steering groups:**

2019-: Member of the [COMPUTE research school](http://cbbp.thep.lu.se/compute/Courses.php) steering group in the LU Science Faculty.

2019-: Experimental responsible in “think tank” on dark matter at colliders towards the European Strategy of Particle Physics.

2017-: Elected member of the Swedish Particle Physics Board.**Selected conference organization and invited talks:**

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| 2019- | Invited talks on Dark Matter and Beyond the Standard Model searches at the LHC at various conferences (including Accelerating the search for DM with machine learning 2019, Italy; Puzzle of Dark Matter 2018, Germany; TeVPA 2018, Germany; Dark Matter @ LHC 2016, US; Particle Physics and Cosmology Symposium 2014, China) |
| 2018- | Overall programme committee chair of 23rd international conference on Computing for High Energy Physics (CHEP), Australia (500 participants) |
| 2018 | Main organizer of the Swedish particle physics community conference in Lund (80 pp) |
| 2016 | Scientific organizer committee of the Dark Matter workshop during KAW foundation’s 100th anniversary symposium “Big Questions in Astrophysics”(36 participants) |
| 2015 2017 | Chair of the “Dark Matter” and “Higgs and Beyond the Standard Model physics” sessions at the European Physical Society Conferences, Austria and Italy |
| 2014- | Chair of the Beyond the Standard Model and QCD session at the 3rd, 4th and 6 th Large Hadron Collider Physics Conference, US, Lund and Italy (350 participants). Member of the local organizing committee in Lund. |
| 2014- | Session chair and organizer of Dark Matter @ LHC Conferences in Netherlands, UK and Germany (~100 participants). |
| 2014 | Local organizer and responsible for logistics (350 participants) of Future Circular Colliders Kick-off meeting, Switzerland. |