

# Philipp Gadow

## Curriculum Vitae

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## Employment and education

- 2020+ **Postdoctoral Research Fellow**, *Deutsches Elektronensynchrotron DESY*, Hamburg, Germany
- 2016–2020 **PhD Physics**, *Max-Planck-Institut für Physik*, Munich, Germany  
Advisor: PD Dr. Oliver Kortner  
Thesis: Search for Dark Matter Produced in Association with Hadronically Decaying Bosons at  $\sqrt{s} = 13$  TeV with the ATLAS Detector at the LHC
- 2013–2016 **M.Sc. Particle Physics**, *Technical University of Munich*, Munich, Germany  
Thesis: Development of a Concept for the Muon Trigger of the ATLAS Detector at the HL-LHC
- Winter 2013 **Erasmus SMS**, *University of Edinburgh*, Edinburgh, United Kingdom
- 2010–2013 **B.Sc. Physics**, *Technical University of Munich*, Munich, Germany  
Thesis: dE/dx studies with pion and electron tracks of the ALICE GEM IROC prototype

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## Leadership

- 2021+ **Flavour tagging algorithms sub-group convener**, *ATLAS experiment*  
Co-ordination (2 conveners) of a group consisting of 40 physicists working on machine learning algorithms for the identification of heavy-flavour jets at the ATLAS experiment
- 2021+ **Analysis contact**, *ATLAS experiment*  
Co-ordination (2 contacts) of the heavy resonances search in four-top-quark final states

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## Talks and posters

### Invited talks

- Feb 2020 **Dark matter searches with the ATLAS detector at the LHC**, *Cavendish Laboratory HEP Seminar*, Cambridge, United Kingdom, seminar talk

### International conferences

- Jul 2019 **ATLAS Highlights on Dark Matter Searches in Exotic Models**, *XIII International Workshop on Interconnections between Particle Physics and Cosmology*, Cartagena, Columbia, conference talk
- Oct 2018 **Search for dark matter produced in association with a Higgs boson decaying to  $b\bar{b}$** , *Puzzle of Dark Matter Workshop*, DESY Hamburg, Germany, Young Scientist Forum talk
- Jun 2018 **Search for Dark Matter in association with a hadronically decaying  $Z'$  vector boson with the ATLAS detector in pp collisions at 13 TeV**, *Sixth Annual Conference on Large Hadron Collider Physics*, Bologna, Italien, poster

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## Schools

- Jul 2019 **Fifth Machine Learning in High Energy Physics Summer School 2019** , DESY, Hamburg, Germany, 10 days
- Sep 2017 **49. Herbstschule für Hochenergiephysik 2019**, University of Siegen, Maria Laach, Germany, 10 days

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## Awards

- 2010-2016 **Full scholarship**  
Studienstiftung des deutschen Volkes (German Academic Scholarship Foundation)  
*The German Academic Scholarship Foundation is Germany's largest and most prestigious scholarship foundation. Scholarships are awarded to fewer than 0.5% of German students.*
- 2014 **Teaching award**  
Goldene Kreide der Physikfachschaft  
*The "Goldene Kreide" is awarded annually by the student council of the physics department to distinguish outstanding student tutors.*

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## Mentoring

### Graduate Students

- 2021+ **Elisaveta Sitnikova**, DESY / UHH (Physics)  
Search for heavy resonances in four-top-quark final states
- 2020-2022 **Alicia Wongel**, DESY / UHH (Physics)  
Search for heavy resonances in four-top-quark final states

### Undergraduate Students

- 2021 **John Lawless**, DESY Summer Student  
Machine learning techniques for top quark reconstruction in four-top-quark final states

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## Teaching

- 2016/17 **Mechanics**, TU Munich, tutor
- 2012, 2014, 2017 **Electromagnetism and Special Relativity**, TU Munich, tutor
- 2012/13, 2015/16 **Optics**, TU Munich, tutor
- 2011/12, 2012/13 **Linear Algebra**, TU Munich, tutor
- 2011/12, 2012/13 **Maths introductory course for freshman students**, TU Munich, tutor

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## Outreach

### ATLAS Masterclass

High school students learn about fundamentals of particle physics in lectures and engage in hands-on data analysis. I participated in ATLAS masterclasses by preparing and giving lectures and instructing the students in the hands-on session.

### **Science Slams**

Science slams are competitive events in which scientists present their research in a given time frame to a diverse audience in an entertaining way. I participated in over 30 such events with a talk about dark matter searches at the Large Hadron Collider, including the Southern German championship.