

Curriculum Vitae

Åsmund Schiager Folkestad

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EDUCATION

AUGUST 2012 – PRESENT	M.Sc. in Applied Physics and Mathematics , Norwegian University of Science and Technology Focus on theoretical physics. Scheduled to finish spring 2018. Grades: 24 A's and 4 B's.
AUGUST 2016 – MAY 2017	Exchange student , University of Minnesota Exchange student doing graduate school coursework in theoretical physics. Grades: 8 A's.
JULY 2016	Summer school in physics , Petnica Summer Institute Summer school on general relativity in Serbia.

SCHOLARSHIPS AND AWARDS

SPRING 2017	Educational scholarship from Toten Sparebank Scholarship awarded to two young students by the bank Toten Sparebank.
FALL 2016 – SPRING 2017	Fulbright scholarship Fulbright scholarship for studying in the US the 2016/2017 academic year.
FALL 2016 – SPRING 2017	Graduate scholarship from University of Minnesota Scholarship from University of Minnesota covering tuition fees for an academic year in addition to a stipend.
FALL 2016 – SPRING 2017	Exchange study stipend from NTNU Stipend from NTNU covering some expenses related to exchange studies.

WORK EXPERIENCE

JUNE 2017 – AUGUST 2017	Cooperation Associate , CERN Work tasks: perform research on radiation damage in the Vertex Locator at LHCb.
JULY 2015 – JUNE 2016	Technical student , CERN Work tasks: perform simulations of silicon detectors for the LHCb experiment. Research and develop a silicon radiation damage model.
AUGUST 2014 – DECEMBER 2014	Head teaching assistant , NTNU Head teaching assistant in TMA4120 Calculus 4K, a course on complex, Laplace and Fourier analysis. Work tasks: coordinate 12 TAs, create a course webpage, write solutions to exercises and exam in L ^A T _E X, and various administrative tasks.
2013 – 2015 2017	Teaching assistant , NTNU Grader and exercise instructor in the courses <ul style="list-style-type: none">TFY4345 Classical Mechanics (analytical mechanics at the level of Goldstein)TFY4215 Introduction to Quantum Physics (approximately level of Griffiths)MA0002 Mathematical Methods BTDT4105 Information Technology
SUMMER 2013, 2014	Teacher , Gjøvik University College Lecturing and exercise instruction in a summer course in algebra and basic calculus for 180 future engineering students. Work tasks: independently create and hold lectures, create and correct tests.

PUBLICATIONS

- Å. Folkestad et al. Development of a silicon bulk radiation damage model for Sentaurus TCAD. *Nuclear Inst. and Methods in Physics Research A*, Volume 874:94–102, December 2017. <http://www.sciencedirect.com/science/article/pii/S0168900217309282>

- K. Akiba, Å. Folkestad, P. Collins. TCAD simulation of Radiation Damage Effects on LHCb Velo and Operations in Run-II. Accepted abstract for poster at the *11th International "Hiroshima" Symposium on the Development and Application of Semiconductor Tracking Detectors*. <https://indico.cern.ch/event/577879/contributions/2740131/>

TALKS

FEBRUARY 2016	11th "Trento" Workshop on Advanced Silicon Radiation Detectors Presented the status of the VELO detector upgrade project on behalf of LHCb, including my research. https://indico.cern.ch/event/452766/contributions/1117380/
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OTHER ACTIVITIES

2012 – 2014 2017	Member of quality assurance group, NTNU Group of volunteers responsible for conveying the feedback of the students to lecturer and evaluating the quality of a course. Participated in the group for the courses TFY4155, EXPH0001, MA3002 and FY8104.
FEB 2013 – MARCH 2015	Board member and webmaster, Trondheim Vikinglag Voluntary work in an association doing history education through living history, experimental archeology and historical reenactment of the Viking Age. Responsible for the association webpage in addition to being. Guitarist and songwriter Guitarist, songwriter and lyricist for the band Achenar. We released an album titled Sacred Duality in 2014. http://achenarband.bandcamp.com/

PROGRAMMING EXPERIENCE

Programming languages:	C++, Python.
Operating systems:	Linux, OS X, Windows.
Other notable software:	L ^A T _E X, Vim, Sentaurus TCAD.
Open source experience:	Contributor to the detector simulation program Garfield++ .