Oline A. Ranum

28.03.1996

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Education

2016-2020	University of Oslo Oslo, Norway Bachelor's degree in physics, astronomy and meteorology Classical, experimental and particle physics. Astronomy. Programing. Mathematics.
Winter 2019	Stellenbosch University Stellenbosch, South Africa INTPART summer school on advanced nuclear reactions and applications in astrophysics
Spring 2019	University of California, Berkeley Berkeley, California Exchange student Nuclear physics. Data driven astronomy, data analysis and scientific communication.
2015-2016	University of Oslo Oslo, Norway International relations Completed 60 credits History, international economy, law and politics
2012-2015	Sandvika high school Sandvika, Norway Physics, mathematics, information technology, history, philosophy, media and communication

Research

Summer 2020	Technical studentship in applied physics CERN Intended work on the FACT detector with the AE\bar{g}IS group					
Fall 2019	Research assistant CERN Independent research supervised by the AEgIS group Diagnosing positronium using the fast annihilation cryogenic tracker					
Spring 2019	88-Inch Cyclotron Lawrence Berkeley National Laboratory (LBNL) Independent research supervised by Lee Bernstein and Andrew Voyles of LBNL Determining production rates of Yttrium 86 for medical applications, <i>Publication in preparation</i>					
Spring 2019	White Dwarf spectra modeling Berkeley Astrophysical Institute Independent research project supervised by Daniel Weisz Applying the canon to fit white dwarf spectra					
Summer 2018	Educational & experimental research University of Oslo Employed research assistant to Prof. Arnt Inge Vistnes Developing an experimental framework for a chaotic double pendulum					

Publications and presentations

Publication "Production of radioactive yttrium nuclei for medical applications using proton and deuteron beams", manuscript in preparation with Lawrence Berkeley National Laboratory, California,

for Radio Chimica Acta

Invited talks

"Diagnosing positronium using the fast annihilation cryogenic tracker of $AE\bar{g}IS$ at CERN"

24.10.2019 AEgIS Collaboration Meeting | CERN, Switserland

30.11.2019 INTPART Summer School | South Africa, Wits University

Tuition

Fall 2018 Laboratory instructor | University of Oslo

Developing a laboratory assignment and software for undergraduate education

Instructed experimental techniques and chaotic system

Academic responsibilities

2017-2019 Fall 2018 2017-2018	Physics student council University of Oslo Student representative Representative on institute board and master's degree board Representative on board of education
Fall 2018	Physics discussion groups University of Oslo Establishing and operating discussion groups in physics
2017-2018	IAESTE University of Oslo International Association for the Exchange of Students for Technical Experience Event manager and organizer of IAESTEs carrier fair, representative
2016-2018	The Realist Union University of Oslo Event manager and volunteer
Fall 2015	SAIH University of Oslo Students and academics international help found, representative
Fall 2015	Global Dignity Day Sandvika High School Class instructor
Employment	
2015-2016 2014-2015	Doctors without borders, Recruiting consultant Eventina AS, Sales consultant

Skills and personal

Programming	Python,	C++	ADQL	/SQL.	Matlab,	git, Latex
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Interests Communication and art, hiking and camping, programming,

literature and philosophy, roller blading, painting and writing

Language Norwegian (Native), English (fluent)

Norwegian sign language (good), Spanish (5 years of secondary education)

Academic

Stefan Haider CERN, $AE\bar{g}IS$ Technical coordinator

Reference letter on request

Daniel Weisz U. C. Berkeley Assistant Professor Astronomy

Recommendation letter on request

Lee Bernstein Lawrence Berkeley National Laboratory Adjunct professor Nuclear Engineering

Recommendation letter on request

Arnt Inge Vistnes Physics department, University of Oslo Associate professor Condensed matter physics

Recommendation letter on request

Benjamin Rienäcker CERN, $AE\bar{g}IS$ Doctoral student

Alexander Lincoln Reed University of Oslo Professor High Energy Physics

Recommendation letter on request

Andrew Voyles Lawrence Berkeley National Laboratory Doctoral student Atomic, Molecular and Optical physics

Other

Jonas Eide Hollund Doctors without borders Team leader Tone Hungerholdt Eventina As Project leader