

Oline A. Ranum

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<https://github.com/OlineRanum>



Education

2020-2022	GRAPPA Institute Amsterdam, Netherlands Masters's degree in Gravitation, Astro-, and Particle Physics
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

Spring/ Summer 2020	Technical internship in experimental physics CERN I.a. Fiber calibration and temperature stabilization of the FACT detector with the AEGIS 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

Publications ” *A fibre detector to monitor ortho- P_s formation - a proof of principle*, B. Reinacker et al.,
Manuscript in preparation with AEGIS of CERN, Switzerland

 ” *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 ” *Diagnosing positronium using the fast annihilation cryogenic tracker of AEGIS at CERN*”
talks 24.10.2019 AEGIS Collaboration Meeting | CERN, Switzerland
 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

Initiatives

Spring 2020 **Founding partner of BliFlink.no | Oslo**
Full stack developer, technical coordinator

Fall 2018 **Physics discussion groups | University of Oslo**
Establishing and operating discussion groups in physics

Academic responsibilities

2017-2019 **Physics student council | University of Oslo**
Student representative

Fall 2018 Representative on institute board and master's degree board

2017-2018 Representative on board of education

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	Doctors without borders , Recruiting consultant
2014-2015	Eventina AS , Sales consultant

Skills and personal

Programming	Python, C++, ADQL/SQL, Matlab, git, Latex
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)

References

Academic

Stefan Haider
CERN, AE γ IS
Technical coordinator

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Phone: ████████████████████

Reference letter on request

Benjamin Rienäcker
CERN, AE γ IS
Supervisor

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Daniel Weisz
U. C. Berkeley
Assistant Professor
Astronomy

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Recommendation letter on request

Alexander Lincoln Reed
University of Oslo
Professor
High Energy Physics

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Recommendation letter on request

Lee Bernstein
Lawrence Berkeley National Laboratory
Adjunct professor
Nuclear Engineering

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Recommendation letter on request

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

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

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Recommendation letter on request

Other

Jonas Eide Hollund
Doctors without borders
Team leader

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Tone Hungerholdt
Eventina As
Project leader

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