

CURRICULUM VITAE

Vegard Lundby Rekaa

ADDRESS

Røyskattlia 15
2743 Harestua
Norway

📖 930 24 034

📧 vegard@rekaa.no

Date of birth: 07. October 1983



WORK EXPERIENCE

Astronomen AS

2020-

CEO

Consultant: science communication, presentations and exhibitions.

Solar Observatory at Harestua

2006-2020

CEO / Teacher / Public speaker

CEO and educator. Responsible for courses in astrophysics. Part-time 2006-2014, full time since 2014.

University of Oslo

2009-2014

Stipendiat

Numerical simulation of kinetic systems using statistical methods and big data visualization.

The University Centre at Svalbard

2008

Library assistant

Part time position

Kambo Marina, Skipperbua AS and Schlytter & Co

2002-2006

Boat and kayak accessory shops

Shop assistant, stock responsible

EDUCATION

University of Oslo

Department of Physics

2009-2014

Ph.D. in plasma physics

Title: *Numerical Simulations of Kinetic Plasmas*

Keywords: plasma, numerical simulations, signal processing, statistics and big data visualization.

University of Oslo

Department of Physics

2007-2009

Master of Science degree in plasma physics.

Title: *Numerical Simulations of Double Layers in Plasmas.*

University of Oslo

Department of Physics

2003-2007

Bachelors degree in Physics

Major subject in plasma physics with additional courses on fluid dynamics and numerical simulations.

Kirkeparken Vgs.

Moss

1999-2002

Upper Secondary School

Major subject in physics and mathematics

Norwegian 1st language, English 2nd, German 3rd

PUBLICATIONS

V. L. Rekaa, Numerical Simulations of Kinetic Plasmas (Ph.D. thesis), University of Oslo, Faculty of Mathematics and Natural Sciences, ISSN 1501-7710

V. L. Rekaa, S. C. Chapman, R. O. Dendy: Ion pre-acceleration in fully self-consistent PIC simulations of supercritical perpendicular reforming shocks in multiple ion species plasmas, *The Astrophysical Journal* **791**, 26 (2014)

V. L. Rekaa, H. L. Pécseli, J. K. Trulsen: Self-similar space-time evolution of an initial density discontinuity, *Physics of Plasmas* **20**, 072117 (2013)

V. L. Rekaa, H. L. Pécseli, J. K. Trulsen: Numerical studies of a plasma diode with external forcing, *Physics of Plasmas* **19**, 082115 (2012)

W. J. Miloch, V. L. Rekaa, H. L. Pécseli, J. K. Trulsen: Ion acoustic double layers forming behind irradiated solid objects in streaming plasmas, *Journal of Plasma Physics* (2010), vol. 76, pp. 429–439

V. L. Rekaa, Numerical Simulations of Double Layers in Plasmas, *Masters thesis*, University of Oslo, 2009

LANGUAGE SKILLS

- Fluent in Norwegian and English
- Intermediate knowledge of German

COMPUTING SKILLS

- Experienced in programming languages C++, Java, Fortran, IDL, Matlab, Python, Ruby, Bash-scripts and more
- Experienced in web development: PHP, MySQL, HTML,
- Expert user and administrator of various linux OS, including network administration, firewall and server configuration
- Experienced Windows user and administrator

OTHER EXPERIENCE

- Active in volunteer organizations Bevar mørket (bevarmorket.no) and Norsk Meteornettverk (ildkule.no)

HOBBIES, INTERESTS

White water kayaking, sea kayaking, canoing, mountain climbing, hiking and outdoor activities, sailing, amateur astronomy, photography and cross country cycling.

REFERENCES

References are given upon request.