

# Curriculum vitae

January 2017

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**Name:** Pomoell, Jens Aarre Vilhelm  
**Date of Birth:** December 12, 1979  
**Place of Birth:** Jakobstad, Finland  
**Citizenship:** Finnish

## Education

**09/2012** Doctor of Philosophy, University of Helsinki, Theoretical Physics  
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P.O. Box 44 (Jyrängöntie 2)  
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**05/2006** Master of Science, University of Helsinki, Theoretical Physics  
**05/1999** Graduated from high school, Katedralskolan i Åbo, Finland

## Training

**16.8-20.8/2010** Summer school of Finnish Graduate school in Astronomy and Space Physics: *Simulation methods in Astrophysics*, Mariehamn, Finland

**03.3-14.3/2008** SOLAIRE Post-graduate school: *Computational methods in Astrophysics*, Bochum, Germany

**30.7-07.8/2007** NASA Heliophysics Summer School: *Plasma physics of the local cosmos*, Boulder, Colorado, USA

## Linguistic skills

**Mother tongue:** Swedish  
**Other languages:** English (fluent)  
Finnish (fluent)  
French (basics)

## Current position

09/2015– Postdoctoral research scientist, Space physics group, Department of Physics, University of Helsinki

## Previous work experience

12/2012-09/2015 Postdoctoral research scientist, Center for mathematical Plasma-Astrophysics, KU Leuven, Belgium

09-12/2012 Postdoctoral research scientist, Space physics group, Department of Physics, University of Helsinki

05/2006-09/2012 PhD student, Space physics group, Department of Physics, University of Helsinki

05-08/2005 Research assistant, Space physics group, Department of Physics, University of Helsinki

2002-2004 Part-time research assistant, Accelerator laboratory, Department of Physics, University of Helsinki

## Research funding and leadership

PI of *The evolution of space weather - relevant eruptions in the solar corona*: computing time at the Flemish Supercomputer Center, 2013

Doctoral programme in Astronomy and Space Physics, one year PhD scholarship, 2009

Finnish Academy of Science and Letters (Väisälä foundation), PhD grant for 2008, 15000 €

Finnish Academy of Science and Letters (Väisälä foundation), PhD grant for 2007, 14000 €

## Supervision

Co-supervisor of Master thesis of E. Lumme, Department of Physics, University of Helsinki, 2016

Co-supervisor of Master thesis of N. Wijzen, Center for mathematical Plasma Astrophysics, KU Leuven, 2016

Supervisor of Master thesis of S. Hoilijoki, Department of Physics, University of Helsinki, 2012

## Teaching

*Lectures of*                    *Termofysikens grunder*, University of Helsinki, 2015  
*Termofysik*, University of Helsinki, 2012

*Exercises of*                *Vetenskapliga beräkningar III*, University of Helsinki, 2011  
*Termofysik*, University of Helsinki, 2010  
*Elektrodynamik*, University of Helsinki, 2010 & 2008  
*Space applications of plasma physics*, University of Helsinki, 2006  
*Introduction to plasma physics*, University of Helsinki, 2006  
*Fysikens matematiska metoder II*, University of Helsinki, 2004  
*Fysikens matematiska metoder I*, University of Helsinki, 2003

## Selected presentations

### *Invited talks*

*Modeling the Sun-To-Earth Evolution of the Magnetic Structure of Coronal Mass Ejections with EUHFORIA*, AGU Fall Meeting, San Fransisco, 2016

*Modeling magnetized coronal mass ejections and particle transport in the inner Heliosphere with EUHFORIA*, COSPAR General Assembly, Istanbul, 2016 (Meeting cancelled)

*Validation and transitioning to operations of the inner heliosphere model EUHFORIA*, COSPAR General Assembly, Istanbul, Turkey, 2016 (Meeting cancelled)

*EUHFORIA: European Heliospheric Forecasting Information Asset*, ESA SSA Space Weather Service Network Thematic Workshop, ESOC Darmstadt, May 2016

First results with EUHFORIA: A physics-based, forecasting-targeted inner heliosphere model, SolarCast-1, Copenhagen, November 2015

MHD modeling of large-amplitude waves, disturbances and CME lift-off, The Sun 360, Kiel, Germany, June 2011

*Contributed talks*    *Event-oriented MHD simulations of global coronal shocks*  
ESPM, Dublin, Ireland, 09/2014

*The evolution of CME-initiated disturbances in the low corona,*  
EWASS, Turku, Finland, 07/2013