

# CURRICULUM VITAE OF ANDRÉ GALLI

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## PERSONAL INFORMATION

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*Nationality* Swiss  
*Date of birth* 7 October 1977



## EDUCATION

*2004 – 2008* **PhD at the Space Research and Planetary Sciences Division** of the University of Bern (Switzerland) on the magnetosphere and atmosphere of the terrestrial planets, comparing data of ESA's Mars Express and Venus Express missions to numerical models. Title of thesis: „Energetic Neutral Atoms Imaging of Mars, Venus, and the Heliosphere“, PhD degree obtained on 28 February 2008.

## EMPLOYMENT HISTORY IN RESEARCH

*March 2018 until present* **Researcher, lecturer (Privatdozent), and project manager at the Space Research and Planetary Sciences Division of the University of Bern:** project scientist of ESA's Jupiter Icy Moons Explorer and Co-I of NASA's Interstellar Mapping Probe.

Current research: Laboratory experiments on the plasma interaction with the Moon, Mercury, and icy bodies in the solar system; space plasma in general; data analysis for heliospheric satellite missions; studies related to the sustainability of space exploration.

*February 2013-February 2018* **Postdoctoral research at the Space Research and Planetary Sciences Division of the University of Bern:**

- Habilitation “Remote sensing of the heliosphere and of the interstellar environment” based on data from the Interstellar Boundary Explorer (IBEX).
- Experimental research on ion sputtering of icy surfaces and mission planning for the Bernese contribution to the Jupiter Icy Moons Explorer.
- Main-author of the document “Critical Review of Energetic Neutral Atom Detection Technique” in the framework of the ESA project “Energetic Neutrals for Space Environment Monitoring”.
- Mass spectrometry and cometary atmospheres for the Rosetta science team.

*June 2012–January 2013* **Postdoctoral research 50% for the Space Research and Planetary Sciences Division of the University of Bern:**

- Measurements of Energetic Neutral Atoms from the heliosheath and from the terrestrial magnetosphere.

**50% for the Netherlands Institute for Space Research:**

- Technical requirements for the CarbonSat environment satellite.

May 2010 – May 2012

**Postdoctoral research at the Netherlands Institute for Space Research in Utrecht:**

- Develop and improve the retrieval algorithm for inverting infrared spectra of methane and CO for the upcoming Sentinel-5 Precursor and current satellite missions, such as GOSAT.
- Improve the spectroscopy relevant to atmospheric research.
- Support the definition of instrument requirements and the calibration of the spectrometer for the Sentinel-5 Precursor.

## TEACHING AND SUPERVISION OF JUNIOR RESEARCHERS

2016 until present

**Supervising 3 PhD students, and several Master and Bachelor students**

September 2012 – present

**Assistant at the Physics Institute:** exercises and exams for students with a Physics Major, laboratory course for beginners, exercises for first year students of medicine and veterinary medicine

2001

**Substitute teacher** at a secondary school for biology, chemistry, and mathematics classes

## PROFESSIONAL EXPERIENCE IN INDUSTRY

January 2009 – December 2009

Engineer for energy efficient buildings and technology consultant at the **engineering consultants hässig sustech gmbh:**

- Planning of buildings that conform to the MINERGIE (Swiss low energy building) standard.
- Coordination and evaluation of a research project on natural air ventilation in schools.
- Technology consultant (including proposal writing) of the energie-cluster.ch for the development of new products and services in the sector of energy efficiency and renewable energy sources.

July 2008 – October 2008

**Internship at the NGO “myclimate”**, specialising on environmental education and the statistical evaluation of carbon offset projects.

## MEMBERSHIPS AND OFFICIAL FUNCTIONS (SELECTION)

2015 - 2018

Member of the ISSI International Team Nr. 322 studying Europa's atmosphere: [www.issibern.ch/teams/exospherejuice/](http://www.issibern.ch/teams/exospherejuice/)

2017 - present

Reviewer for the NASA Solicitation and Proposal Integrated Review and Evaluation System

2007 - present

Member of the American Geophysical Union, active in the sections “Atmospheric Sciences” and “Space Physics and Aeronomy”

2012 - present

Referee for international scientific journals: Icarus, International Journal for Remote Sensing, Atmospheric Measurement Techniques

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