CURRICULUM VITAE OF ANDRÉ GALLI

PERSONAL INFORMATION

Name	PD Dr. André Galli
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ORCID ID	0000-0003-2425-3793
Nationality	Swiss
Date of birth	7 October 1977
Languages	German, English, French, (Dutch, Italian)
Project funds acquired	280,000 CHF

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, and project manager at the Space Research and Planetary Sciences Division at the University of Bern:**
Activities: Laboratory experiments on the plasma interaction with the Moon, Mercury, and icy bodies in the solar system; project scientist of ESA's Jupiter Icy Moons Explorer, space plasma in general; project manager and Co-I of NASA's Interstellar Mapping Probe, data analysis for heliospheric satellite missions; studies on sustainability and space exploration, public outreach for space science

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 (JUICE).
- 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 for the University of Bern and the Netherlands Institute for Space Research:**

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

- 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

2020 until present **Lecture: Plasma Physics, at the University of Bern**

2016 until present **Supervising PhD, Master, and Bachelor students**

September 2012 – present **Assistant at the Physics Institute** for students in physics and medicine: laboratory courses, exercises

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 low energy buildings.
- Leading 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 - present Member of the following ISSI International Teams and Workshops:
Towards a global unified model of Europa's exosphere in view of the JUICE mission: www.issibern.ch/teams/exospherejuice;
Surface bounded exospheres and interactions in the inner Solar System: www.issibern.ch/workshops/exosphere;
The Heliosphere in the Local Interstellar Medium: www.issibern.ch/workshops/heliosphere

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