

Vincent Dols

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EDUCATION

- 1985-1989 **Bachelor's degree in physics, main topic: atmospheric science**, University of Liège, Belgium.
Thesis: *Modeling of the interaction of the carbon cycle and the paleoclimate*. (Jean Genard award)
- 1991-1992 **Diploma in education in physics** for high school students (K10-K12), University of Liège, Belgium.
- 1999-2001 **Master's degree in space physics**, University of Alaska, Fairbanks, USA.
Thesis: *Interaction of Io and the Jovian magnetic field: Alfvén wing and particle acceleration*.

WORK EXPERIENCE

- 1990-1998 **Research assistant** at the Institute of Astrophysics and Geophysics of Liège, Belgium.
Topic: study of the aurorae of the giant planets using the Hubble Space Telescope.
- 1999-2001 **Research assistant** at the Geophysical Institute at the University of Alaska Fairbanks, USA.
Topic: magneto-hydrodynamics numerical modeling to study the interaction of Io and Jupiter.

SKILLS

Scientific:

- Strong background in **atmospheric science, space physics, math, chemistry and general physics**.
- Extended experience in **data analysis and interpretation**: image and spectra analysis in 10 Hubble Space Telescope observation programs and co-investigator in 7 of them.
- Experience in **numerical modeling**: climate modeling and plasma modeling.
- Demonstrated **skills in research**: author or co-author of 16 publications, mostly in the peer-reviewed literature and 30 oral or poster presentations, mostly in international conferences.

Communication with students, educators and general public:

- Teaching experience with **K10-12 students**, Belgium, 1992, 1996, and 1997.
- Representative of the Physics Department at the *National Student's Forum* to inform **K12 students** of the physics programs offered at the University, Belgium, 1996.
- Animation of planetarium sessions for high school students (Belgium, 1997) and for high school **teachers** (Alaska, 2000).
- Teaching of a graduate course *Introduction to plasma physics*, 1996, 1997.
- Teaching assistant for undergraduate students in physics and astronomy, Fairbanks, 1999.
- Speaker at conferences of the Astronomical Society of Liège for a **general audience**: *Io and Jupiter*, 1993 and *the aurora of Jupiter*, 1994.
- Speaker at the *Foucault pendulum experiment* exhibition, for a **general public**, Belgium, 1997.

Computer:

- 10 year experience in **Unix** operating system, including some system administration, 1990.
- Extended experience in **data analysis** professional programs (IDL, IRAF, STSDAS).
- Good knowledge of **Microsoft products** (Word, Excel, PowerPoint) on PC and equivalent on Mac.
- Good knowledge of Dreamweaver for **website design** (<http://www.geocities.com/vincentdols>).

