

# Curriculum vitae

## PERSONAL INFORMATION

Family name, First name: Price, Colin G.

Date and place of birth: 24 January 1962, Johannesburg, South Africa

Contact Details: Porter School of the Environment and Earth Sciences, Tel Aviv University

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## • EDUCATION

- 1993 PhD, Atmospheric Science, Columbia University, USA
- 1988 MSc, Geophysics and Atmospheric Science, Tel Aviv University (TAU), Israel
- 1985 BSc, Geophysics and Planetary Science, Tel Aviv University, Israel

## • CURRENT POSITION

- 2007-present Full Professor, Porter School of the Environment and Earth Sciences, Tel Aviv University (TAU), Israel
- 2017-present Head of Department of Environmental Sciences, TAU
- 2018-present Head of Center on Nano-satellites, TAU
- 2021-present Head of Center on Climate Action, TAU
- 2021-present Jose Goldenberg Chair in Planetary Physics, TAU

## • PREVIOUS POSITIONS

- 2017-2020 Head of Center of Innovation in Transportation, TAU
- 2007-2013 Department Head, Department of Geophysics, TAU
- 2014 summer Visiting Professor, Earth Sciences, MIT, Boston, United States
- 2003-2007 Associate Professor, Dept. of Geophysics, Tel Aviv University
- 2003 summer Visiting Professor, Dept. of Atmospheric Science, McGill University, Montreal
- 1998-2003 Senior Lecturer, Department of Geophysics, Tel Aviv University
- 2001-2002 Sabbatical Leave, Environment Canada, Downsview, Canada
- 1995-1998 Lecturer, Department of Geophysics, Atmospheric and Planetary Science, TAU
- 1993-1995 Postdoctoral Fellow, Atmospheric Sciences, Lawrence Livermore National Laboratory, Livermore, California
- 1988-1995 Research Assistant, NASA/GISS, New York, NY, USA

## • RESEARCH TOPICS

Atmospheric Electricity, Thunderstorms, Lightning, Severe Weather, Climate Change, Natural Hazards, Space Weather, Meteors, Biomass Burning, El Nino, Tropospheric Chemistry

## • FELLOWSHIPS AND AWARDS

- 2020 Top 100 Lecturers at TAU
- 2008 Research paper ranked 25th out of top 100 science stories of 2007 by Discovery Magazine
- 2008 Excellence in Scientific Reviewing Award from the American Geophysical Union (Geophysical Research Letters)
- 2006 Awarded EU FP6 FLASH project (€1.2 million) as Coordinator
- 2001 Environment and Living Foundation Science Award, LSB Baden Wuerttemberg and Konstanz University (Konstanz, Germany)
- 1993-1995 INCOR Postdoctoral Fellowship (Livermore, CA)

- **SUPERVISION OF GRADUATE STUDENTS:** 1996-2021 - 45 MSc and 13 PhD Students, School of the Environment and Earth Sciences, Tel Aviv University, Israel

- **TEACHING ACTIVITIES**

2019-present	The Climate Crisis and Sustainability (online campus-wide course)
2010-present	Introduction to Atmospheric Science (Geophysics undergraduate - online)
2012-2019	Atmospheric Physics (Geophysics undergraduate)
2010-present	Climate Change (International MA in Environmental Studies)
2015-present	Global Warming and Natural Hazards (International MA in Public Health)
1996-present	El Nino (Geophysics graduate seminar)
1997-present	Biomass Burning (Geophysics graduate seminar)
1997-present	Atmospheric Electricity (Geophysics graduate seminar)
1996-2013	Climate Change (Geophysics undergraduate)
2000-2006	Introduction to Climate (Geography undergraduate)
2005-2011	Electrical and Optical Phenomenon in the Atmosphere (Geophysics undergraduate)

- **INSTITUTIONAL RESPONSIBILITIES**

2020-present	Head of the Climate Action Center
2017-present	Head of the Porter School of Environmental Studies
2017-2020	Head of the TAU Center for Innovation in Transportation
2018-present	Head of the TAU Center for Nano-satellites
2008-2013	Head of Department of Geophysics, Tel Aviv University, Israel
2009-present	Member of Board of Governors of Tel Aviv University
2008-2018	Member of Senate of Tel Aviv University
1995-present	Member of various university committees: BSc students, MSc students, PhD students, Academic Council of School of Environmental Studies.

- **INTERNATIONAL RESPONSIBILITIES**

2020-present	Israel representative to Commission H – Union of Radio Science (URSI)
2020-present	Israel National Representative to the Scientific Committee on Solar-Terrestrial Physics (SCOSTEP)
2014-present	Israel National Representative to International Union of Geodesy and Geophysics (IUGG)
2011-present	Associate Editor of JGR-Atmospheres
2011-present	Executive Committee Member and Israel National Representative, International Association of Meteorology and Atmospheric Science (IAMAS)
2007-present	Executive Committee member, International Commission on Atmospheric Electricity (ICAE)
1995-present	Scientific Evaluation of proposals: EUMETSAT, NASA, Israel Science Foundation (ISF), Israel Binational Science Foundation (BSF), German-Israel Foundation (GIF), Israel Ministry of Science, Israel Ministry of Infrastructure, European Research Council (ERC), US National Science Foundation (NSF), Greek National Science Foundation, Georgia National Science Foundation, South African Research Council, Hungarian Science Foundation, New Zealand Science Foundation, Polish National Science Foundation, the Netherlands Organisation for Scientific Research, Netherlands Research Council.
1995-present	Peer review of scientific papers: Advances in Space Research, Advances in Geosciences, Annales Geophysicae, Astrophysics and Space Science, Atmospheric Research, Atmospheric Chemistry and Physics Discussions, Contributions to Atmospheric Physics, EUMETSAT, Geophysical Research Letters, Global Change Biology, Indian Journal of Radio and Space Physics, Journal of Applied Meteorology and Climatology, Journal of Atmospheric Chemistry, Journal of Atmospheric and Solar Terrestrial Physics, Journal of Climate, Journal of Geophysical Research – Atmospheres (Associate Editor), Journal of Geophysical Research – Space Physics, Journal of Ocean and

Atmospheric Technology, Natural Hazards and Earth System Sciences,  
Measurement Science and Technology, Monthly Weather Review, Nature, Radio  
Science, Science, Tellus, The Open Atmospheric Science Journal.

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES:** European Geoscience Union, American Geophysical Union, American Meteorological Society, Israel Meteorological Society, International Union of Geodesy and Geophysics (IUGG), International Aeronomy and Geomagnetism Association (IAGA), International Association of Meteorology and Atmospheric Science (IAMAS), International Commission of Atmospheric Electricity (ICAE), International Radio Science Union (URSI).
- **PUBLICATIONS:** 150+ papers <https://www.flash.sites.tau.ac.il/publications>

Selected 10 publications:

Sukhov, V., E. Sukhova, Y. Sinitsyna, E. Gromova, N. Mshenskaya, A. Ryabkova, N. Ilin, V/ Vodeneev, E. Mareev and C. Price, 2021: Influence of magnetic field with Schumann resonance frequencies on photosynthetic light reactions in wheat and pea, *Cells*, 10, 149, doi:10.3390/cells10010149.

Asfur, M., J. Silverman, C. Price, 2020: Ocean acidification may be increasing the intensity of lightning over the oceans, *Nature Sci. Rep.*, 10: 21847, doi:10.1038/s41598-020-79066-8.

Price, C., E. Williams, G. Elhalel and D. Sentman, 2020: Natural ELF fields in the Atmosphere and in living organisms, *Int. J. Biometeorology*, <https://doi.org/10.1007/s00484-020-01864-6>.

Lax, J., C. Price and H. Saaroni, 2020: On the spontaneous build-up of voltage between dissimilar metals under high relative humidity conditions, *Nature Scientific Rep.*, 10:7642, doi.org/10.1038/s41598-020-64409-2.

Elhalel, G., C. Price, D. Fixler and A. Shainberg, 2019: Cardioprotection from stress conditions by weak magnetic fields in the Schumann Resonance band, *Nature Sci. Rep.*, doi: 10.1038/s41598-018-36341-z.

Price, C., N. Reicher and Y. Yair, 2015: Do West African thunderstorms predict the intensity of Atlantic hurricanes? *Geophys. Res. Lett.*, 42, doi:10.1002/2014GL062932.

Price, C., M. Asfur and Y. Yair, 2009: Maximum hurricane intensity preceded by increase in lightning frequency, *Nature Geoscience*, doi:10.1038/NGEO477, Vol. 2, 329-332.

Price, C., 2000: Evidence for a link between global lightning activity and upper tropospheric water vapor, *Nature*, 406, 290-293.

Price, C., L. Stone, A. Huppert, B. Rajagopalan, P. Alpert, 1998: A Possible Link Between El Nino and Precipitation in Israel, *Geophys. Res. Lett.*, 25, 3963-3966.

Price, C., and D. Rind, 1994: Possible implications of global climate change on global lightning distributions and frequencies, *J. Geophys. Res.*, 99, 10823-10831.