

RESUME FOR DR. DAVID JOHN LARY

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Employment with NASA for the last six years 2001-Present

Senior Research Scientist 2006-Present
Atmospheric Chemistry and Dynamics Branch, NASA Goddard Space Flight Centre/UMBC GEST

Senior Research Scientist 2002-2006
Global Modeling and Assimilation Office, NASA Goddard Space Flight Centre/UMBC GEST

The First Distinguished Goddard Fellow in Earth Science 2001-2002
Data Assimilation Office, NASA Goddard Space Flight Centre/UMBC GEST

In less than five years at NASA I have received five awards and was graded as outstanding in each annual assessment and given the maximum promotion possible.



Employment with Cambridge University for sixteen years 1987-2002

University Lecturer in Chemical Informatics 2000-2001
University of Cambridge
Personally suggested for this post by the chief scientific adviser to the British Prime Minister and Head of the British Office of Science and Technology, Professor Sir David King. Obtained the equivalent of \$1.5 million dollars of funding from a variety of agencies.



Royal Society University Research Fellow 1996-2002
University of Cambridge, Department of Chemistry
Established the Cambridge Chemical Data Assimilation Group. Initiators of the technique of Chemical Data Assimilation, commended by the Royal Meteorological Society as pioneering, supported financially by the Royal Society, the European Union, the European Space Agency and the UK Natural Environment Research Council.

A Royal Society University Fellowship is the most prestigious award for young scientists in the UK. The Royal Society is the world's oldest scientific academy in continuous existence, and has been at the forefront of enquiry and discovery since its foundation in 1660. The backbone of the Society is its Fellowship of the most eminent scientists of the day, elected by peer review for life and entitled to use FRS after their name. Throughout its history, the Society has promoted excellence in science through its Fellowship, which has included Isaac Newton, Charles Darwin, Ernest Rutherford, Albert Einstein, Dorothy Hodgkin, Francis Crick, James Watson and Stephen Hawking.

The Royal Society provides University Research Fellowships by stiff competition to enable talented scientists to build independent research careers. The fellowships provide funding for salaries and research expenses for up to ten years. (<http://www.royalsoc.ac.uk/funding/>)

Senior Lecturer and Alon Fellow 1998-2000
University of Tel-Aviv, Department of Geophysics and Planetary Space Science
An Alon Fellow is the highest award Israel can give a young scientist. While there, I gave courses including one in atmospheric chemistry and climate.

Post Doctoral Research Associate 1994-1996
University of Cambridge, Department of Chemistry

Post Doctoral Research Assistant 1991-1994
University of Cambridge, Department of Chemistry

EDUCATION



PhD In Photochemical Modeling of the Atmosphere

1987 - 1991

Department of Chemistry and Churchill College, Cambridge.

This PhD involved writing the first chemical scheme for the ECMWF weather forecasting model.

Ranked by citations the Department of Chemistry at Cambridge University is the number one department any where in the world in any discipline. The department's strength is recognized by the award of the highest possible (5*) rating in the 2001 UK Research Assessment Exercise.

<http://www.ch.cam.ac.uk/CUCL/intro.html>



First Class Double Honors BSc. In Physics & Chemistry, King's College, London.
with the Sambrooke Exhibition Prize for Natural Science

1984 - 1987

SELECTED PUBLICATIONS

Data Assimilation and Objectively Optimized Earth Observation, D. J. Lary and A. Koratkar, Chapter 16,
Advances in Science: Earth Science, Imperial College Press, 2005

Invited vision article, specially commended by the editor

Carbon aerosols and atmospheric photochemistry, Lary DJ, Lee AM, Toumi R, et al.

JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES, **102 (D3)**, 3671-3682, 1997

112 Citations, specially commended by the editor

Using Probability Distribution Functions for Satellite Validation, Lary, D.J., and Lait, L.,

Transactions on Geoscience and Remote Sensing (TGARS), **44**, Issue 5, 1,359 - 1,366, 2006

Digital Object Identifier 10.1109/TGRS.2005.860662

A Method to Determine the Spatial Resolution Required to Observe Air Quality from Space,

Loughner, C.P., Lary, D.J., Sparling, L.C., Cohen, R.C., DeCola, P., Stockwell, W.R.,

Transactions on Geoscience and Remote Sensing (TGARS), **45**, Issue 5, Part 2, 1,308 - 1,314, 2007

Digital Object Identifier 10.1109/TGRS.2007.893732

Halogens and the chemistry of the free troposphere, Lary, D. J. ,

Atmospheric Chemistry and Physics, **5**, 227-237, 2005.

Using neural networks to describe tracer correlations, Lary DJ, Muller MD, Mussa HY

ATMOSPHERIC CHEMISTRY AND PHYSICS, **4**, 143-146, 2004

AWARDS

Appointed to the NASA GSFC Science Director's Council	2007
NASA Space act award	2005
NASA Inventions and Contributions Board Award	2005
NASA Space act award	2004
NASA Tech Brief Award for Creative development of a technical innovation	2004
NASA Data Assimilation Office Special recognition Award	2002
Alon Fellowship	1998
Royal Society Fellowship	1996
Sambrooke Exhibition Prize for Natural Science	1986