

# CURRICULUM VITAE

**October 2004**

**Name:** NICHOLAS BORIS SUNTZEFF

**Position:** **Associate Director for Science**  
**National Optical Astronomy Observatory**

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National Optical Astronomy Observatory  
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<http://www.ctio.noao.edu/~nick/>

**Birthdate:** November 22, 1952, Berkeley, California.  
Native of San Francisco and Corte Madera California  
US Citizen

**Marital Status:** Married to Jeruška Vladislavić (one child).

**Parents:** Nicholas and Jeanette Suntzeff - Deceased

**Language:** Bilingual in English and Spanish

**Areas of concentration:**  
Supernovae; observational cosmology; stellar populations;  
fundamental standardization of photometry and  
spectrophotometry; instrumentation; site surveys for astronomical  
telescopes

**Education:**

1974-1980	Ph. D. in Astronomy and Astrophysics. Board of Studies in Astronomy and Astrophysics UC Santa Cruz and Lick Observatory Robert P. Kraft, thesis advisor
1970-1974	B.S. with distinction Department of Mathematics Stanford University
1966-1970	Redwood High School, Larkspur, CA.

**Employment:**

2004-	Associate Director for Science NOAO
1996-2004	Astronomer/Tenure, National Optical Astronomy Observatories,

1991-1996 Cerro Tololo Inter-American Observatory  
 Associate Astronomer/Tenure, CTIO/NOAO  
 1990-1991 Associate Astronomer, CTIO/NOAO  
 1986-1990 Assistant Astronomer, CTIO/NOAO  
 1982-1986 Las Campanas Fellow  
 Mt. Wilson and Las Campanas Observatories  
 The Carnegie Institution of Washington.  
 1980-1982 NSF Postdoctoral Research Associate  
 with G. Wallerstein, University of Washington.  
 1977-1980 Research Assistant  
 with R.P. Kraft, Lick Observatory  
 1976-1977 Teaching Assistant, The Thacher School,  
 NSF Summer Science Program, Ojai, CA.  
 1975-1976 Teaching Assistant  
 University of California at Santa Cruz.  
 1974 Teaching Assistant  
 Institute for Plasma Research, Stanford University  
 1971,2,3 Park Ranger (summer)  
 Californian State Department of Parks & Recreation

**Fellowships and Honors:**

2003 ISI Highly Cited Space Scientist (250 worldwide)  
<http://isihighlycited.com/>  
 1999 AURA Achievement Award for Outstanding Science  
 1998 Science Magazine “Science Breakthrough of the Year Award” for  
 the discovery of the accelerating universe  
 1992 AURA Achievement Award for Outstanding Science  
 1983 Robert J. Trumpler Award for the outstanding PhD thesis of 1980,  
 Astronomical Society of the Pacific.  
 1982 Las Campanas – Carnegie Fellowship  
 Mount Wilson and Las Campanas Observatories  
 The Carnegie Institution of Washington.  
 1974 Graduate Fellowship  
 University of California at Santa Cruz.  
 1974 Phi Beta Kappa  
 Stanford University.

**Professional Societies and Committees:**

International Astronomical Union.  
 IAU Commissions 29, 30, 37, 50.  
 American Astronomical Society.  
 Astronomical Society of the Pacific.  
 Cerro Tololo Inter-American Obs. Users' Committee 1984-6  
 HST TAC Panel 1994, 1996, 1997.  
 Gemini Science Operations Working Group 1997.

CTIO TAC 1990-98  
NOAO TAC 1999-2003  
Chilean Astronomy TAC 2000  
Chilean Gemini TAC 2004-

**PI and Co-I on the following grants:**

GO-5423 Cycle 4. "The Tucana Dwarf Spheroidal Galaxy"  
GO-5480 Cycle 4 "SINS: Supernova Intensive Study - Cycle 4"  
GO-6020 Cycle 5 "SINS: Supernova Intensive Study - Cycle 5"  
GO-5917 Cycle 5. "The Globular Clusters in the Fornax Dwarf Galaxy: Physical Parameters and Chronology"  
GO-5916 Cycle 5 "The Oldest Globular Clusters in the Large Magellanic Cloud"  
GO-6362 Cycle 6 "Supernova Host Galaxies"  
GO-6437 Cycle 6 "SINS: Supernova Intensive Study - Cycle 6"  
GO-7505 Cycle 6 "The Hubble Diagram for Distant Supernovae Measuring  
GO-7434 Cycle 7 "SINS: Supernova Intensive Study - Cycle 7"  
GO-7588 Cycle 7 "Measuring  $q_0$  With Type Ia Supernovae "  
GO-7463 Cycle 7 "Proper Motion of the Sagittarius Dwarf Galaxy"  
GO-07820 Cycle 11 "The Metallicity Distribution of the Globular Cluster Systems of Giant Elliptical Galaxies."  
GO-08177 Cycle 8 "Investigating Type Ia Supernovae and an Accelerating Universe"  
GO-08243 Cycle 8 "SInS - The Supernova Intensive Survey - Cycle 8"  
GO-08641 Cycle 9 "Testing the Accelerating Universe"  
GO-08648 Cycle 9 "Supernova INTensive Study--Cycle 9"  
GO-08778 Cycle 9 "Proper Motion of the Sagittarius Dwarf Galaxy-Cycle 9"  
GO-09114 Cycle10 "The Supernova INTensive Study--Cycle 10"  
GO-09118 Cycle10 "Tracing the Cosmic Expansion to  $z>1$  with Type Ia Supernovae"  
GO-09328 Cycle 10 "Comprehensive STIS Spectroscopy of the Supernova Remnant 1987'a Formation"  
GO-9421 Cycle 11"UV Observations of Hubble Flow Type Ia Supernovae"  
GO-9428 Cycle 11"SINS: The Supernova INTensive Study-- Cycle 11  
GO-9860 Cycle12 "ESSENCE: Measuring the Dark Energy Equation of State"  
GO-9925 Cycle 12 "Transients in the Ultra-Deep Field"  
GO-9958 Cycle 12 "An Astrometric standard field in Omega Centauri"  
GO-10263 Cycle 13 "SAINTS - Supernova 1987A INTensive Survey",  
GO-10182 Cycle 13 "Towards a Comprehensive Understanding of Type Ia SNe: The Necessity of UV Observations"  
NRA-99-04-OSS-058 "Space Interferometry Mission Preparatory Science/NSTARS Program."  
AST-0206329 "Probing the Equation of State of Dark Energy with Supernovae"  
AST-0306969 "Carnegie Supernova Project"

**Major Scientific Collaborations:**

Calán/Tololo Supernova Survey: 1990-6  
High-Z Supernova Team: 1994-2002  
ESSENCE Supernova Search: 2002-present  
SuperMacho Microlensing Survey: 2002-present  
Supernova INTensive Study: 1990-present  
Carnegie/CTIO Bright Supernova project: 2003-present  
Large Synoptic Survey Telescope  
Dark Energy Camera (Fermilab)  
DESTINY Project (JDEM proposal)

## **Major Scientific Discoveries and Techniques**

Evidence for rotational mixing in red giant stars affecting surface abundances (thesis)  
Precise metallicities of metal-poor stars using low dispersion spectroscopy  
Calibration of the optical spectrophotometric system  
Director of the Cerro Pachón (Gemini-South) Site Survey  
Development of CCD photometry to study supernova light curves  
Precise measurements of the abundances of radioactive nuclides in SN1987A.  
Measurement of the halo properties of the LMC and SMC  
Kinematical modeling of the LMC disk  
Calibration of Type Ia supernovae as standardizable candles  
Measurement of the Hubble constant using Type Ia supernovae  
Identification of the first progenitor to a Type Ia supernova – SN2002ic  
The discovery of Dark Energy and acceleration in the Universe