RICHARD GORDON KRON

B.S. (Physics)	University of Arizona, Tucson, May 1972
Ph.D. (Astronomy)	University of California, Berkeley, Dec. 1978

Assistant Prof.	University of Chicago, Oct. 1978 - Sept. 1981
Associate Prof.	University of Chicago, Oct. 1981 - Sept. 1985
Professor	University of Chicago, Oct. 1985 -
Scientist II	Fermi National Accelerator Laboratory, Apr 1991 – Oct 2011
Scientist III	Fermi National Accelerator Laboratory, Oct 2011 -

Head, Experimental Astrophysics Group, Fermilab	April 1991 – December 1999
Director, Sloan Digital Sky Survey	July 2003 – June 2005
Director, Sloan Digital Sky Survey-II	July 2005 – December 2008
Deputy Director, Dark Energy Survey	April 2010 – October 2018
Director, Dark Energy Survey	October 2018 to the present

Chair: Space Telescope Working Group on Deep Surveys, 1984 – 1985
Chair: Scientific Advisory Committee of the Columbus Telescope Project, 1986 – 1988
Chair: NRC Panel on Galaxies, Task Group on Space Astron. & Astrophysics, 1996
Chair: Local Organizing Committee for Centennial Meeting of the AAS, Chicago, 1997
Chair: SDSS Collaboration Council, 2001 – 2003
Chair: Giant Magellan Telescope Scientific Advisory Committee, 2011– 2015
Co-chair: Dark Energy Spectroscopic Instrument Survey Design Working Group, 2017 – 2018
Co-ombudsperson: Dark Energy Spectroscopic Survey, 2016 to the present

Selected Service Positions within the Department of Astronomy & Astrophysics:

Director, Yerkes Observatory , April 1989 – July 2001
Deputy Director of the Center for Astrophysical Research in Antarctica (co-founded the very successful *Space Explorers* outreach program)
Chair, Provost's Visiting Committee to Adler Planetarium, several times including the present (2019)
Assistant Chair for Academic Affairs, January 2015 to the present (oversees both graduate and undergraduate academic programs, a signature accomplishment being the creation of Minor and Major programs of study in Astrophysics)

Awards:

Dorothea Klumpke-Roberts Prize (UC Berkeley), 1975
Robert J. Trumpler Award (Astronomical Society of the Pacific), 1981
Newton Lacy Pierce Prize (American Astronomical Society), 1985
Llewellyn John and Harriet Manchester Quantrell Award for Excellence in Undergraduate Teaching (U. of Chicago), 1995

Elected Positions: Councilor, American Astronomical Society, 1991-1994
Spokesperson, Sloan Digital Sky Survey, 2001 – 2003

Major grants as PI: NSF AST-0096900 *The Sloan Digital Sky Survey*, $4M (4.4 years)
NSF AST-0443905 *An Extension to the SDSS*, $5.4M (4 years)
(Both of the above had corresponding awards from the Sloan Foundation. RGK was PI of AST-0096900 from 2003 onwards.)

Research interests: faint-object photometric methodology; evolution of stellar systems; evolution of quasar populations; redshift samples of galaxies and quasars; survey design and operation for wide-field optical cosmological sky surveys; large-scale public distribution of sky survey data products.

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Abbott, T. M. C. et al. 2019. "First Cosmology Results using Type Ia Supernovae from the Dark Energy Survey: Constraints on Cosmological Parameters." ApJ 872L, 30A.

DES Collaboration; Abbott, T. M. C. et al 2018. "Cosmological Constraints from Multiple Probes in the Dark Energy Survey." arXiv:1811.02375 (to be published in Physics Review Letters).

Prat, J. et al. 2018. "Cosmological lensing ratios with DES Y1, SPT and Planck." arXiv:1810.02212 (submitted to MNRAS).

Gruen, D. et al. 2018. "Dark Energy Survey Year 1 Results: The effect of intra-cluster light on photometric redshifts for weak gravitational lensing." arXiv:1809.04599 (submitted to MNRAS).

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Li, T.S. et al. 2018. “Ships Passing in the Night: Spectroscopic Analysis of Two Ultra-Faint Satellites in the Constellation Carina.” ApJ 857, 145.

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Luque, E., and 50 colleagues 2018. “Deep SOAR follow-up photometry of two Milky Way outer-halo companions discovered with Dark Energy Survey.” MNRAS 478, 2006.

Soares-Santos, M., and 144 colleagues 2017. “The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. I. Dark Energy Camera Discovery of the Optical Counterpart.” ApJ 848, 16.

Davis, C., and 83 colleagues 2017. “Dark Energy Survey Year 1 Results: Cross-Correlation Redshifts in the DES -- Calibration of the Weak Lensing Source Redshift Distributions.” ArXiv e-prints arXiv:1710.02517.

DESI Collaboration, and 292 colleagues 2016. “The DESI Experiment Part II: Instrument Design.” ArXiv e-prints arXiv:1611.00037.

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Dark Energy Survey Collaboration, and 140 colleagues 2016. “The Dark Energy Survey: more than dark energy - an overview.” Monthly Notices of the Royal Astronomical Society 460, 1270-1299.

Diehl, H.T., and 117 colleagues 2016. “The dark energy survey and operations: years 1 to 3.” Observatory Operations: Strategies, Processes, and Systems VI 9910, 99101D.

Flaugher, B., and 118 colleagues 2015. “The Dark Energy Camera.” The Astronomical Journal 150, 150.

Bechtol, K., and 93 colleagues 2015. “Eight New Milky Way Companions Discovered in First-year Dark Energy Survey Data.” The Astrophysical Journal 807, 50.

Jouvel, S., Abdalla, F.B., Kirk, D., Lahav, O., Lin, H., Annis, J., Kron, R., Frieman, J.A. 2014. “Optimizing spectroscopic and photometric galaxy surveys: efficient target selection and survey strategy.” Monthly Notices of the Royal Astronomical Society 438, 2218-2232.

Abdalla, F., and 31 colleagues 2012. “The Dark Energy Spectrometer (DESpec): A Multi-Fiber Spectroscopic Upgrade of the Dark Energy Camera and Survey for the Blanco Telescope.” ArXiv e-prints arXiv:1209.2451.

Guennou, L., and 29 colleagues 2012. “Intracluster light in clusters of galaxies at redshifts $0.4 < z < 0.8$.” Astronomy and Astrophysics 537, A64.

Eisenstein, D.J., and 243 colleagues 2011.”SDSS-III: Massive Spectroscopic Surveys of the Distant Universe, the Milky Way, and Extra-Solar Planetary Systems.” The Astronomical Journal 142, 72.

Aihara, H., and 179 colleagues 2011.”The Eighth Data Release of the Sloan Digital Sky Survey: First Data from SDSS-III.” The Astrophysical Journal Supplement Series 193, 29.

Schneider, D.P., and 47 colleagues 2010. “The Sloan Digital Sky Survey Quasar Catalog. V. Seventh Data Release.” The Astronomical Journal 139, 2360.

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