

VITA

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Goldwin Smith Professor of Astronomy, Cornell University

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Education:

1973 B.A. Wellesley College, physics and astronomy, with special honors
1975 M.A. Indiana University, astronomy
1978 Ph.D. Indiana University, astronomy

Professional Employment:

1978-80 postdoctoral research associate, National Astronomy and Ionosphere Center,
Arecibo Observatory
1981 research associate, National Astronomy and Ionosphere Center
1981-83 assistant director for Green Bank operations and assistant scientist, National Radio
Astronomy Observatory
responsible for daily operations at rural telescope site with 84 employees, \$3M/yr budget
1983-86 assistant professor, Department of Astronomy, Cornell University
1986-91 associate professor
1991- professor
director of undergraduate study in astronomy (1990-1997, 1998-2002)
associated with the National Astronomy and Ionosphere Center and the Center for
Radiophysics and Space Research

Concurrent Positions:

1988 visiting fellow, Australian National University
1989 visiting professor, University of Milano and Astronomical Observatory of Brera
1989 visiting professor, University of Bologna
1990 visiting professor, Astrophysical Observatory of Arcetri
1991-4 collaborative research scientist, National Radio Astronomy Observatory
1997 visiting scientist, European Southern Observatory
1998-9 interim president, Associated Universities, Inc.
responsible for \$40M/yr cooperative agreement with National Science Foundation for
operation of the National Radio Astronomy Observatory and for \$29M design and
development phase of the Millimeter Array (now ALMA)
2005-8 deputy director, National Astronomy and Ionosphere Center

Honors and Fellowships:

1989 Henry Draper Medal, National Academy of Sciences
1993 Dean's Award for Excellence in Advising, College of Arts and Sciences, Cornell University
1999 elected to American Academy of Arts and Sciences
2000 elected to National Academy of Sciences
2000 elected Fellow of the American Association for the Advancement of the Sciences
2002 elected Goldwin Smith Professor of Astronomy, Cornell University
2007 Cecilia Payne-Gaposchkin lecturer, Harvard Smithsonian Center for Astrophysics
2008 Lyman Spitzer Jr. Lecturer, Princeton University

Selected Professional Activities:

Professional Society Membership:

American Association for the Advancement of Science
American Astronomical Society
International Astronomical Union
International Union of Radio Science

Cornell University

member, Strategic Planning Advisory Council, 2009–
liaison, College of Arts and Sciences, ADVANCE program 2007–8
member, Faculty Advisory Committee on Tenured Appointments, 2005–7
member, Faculty Oversight Committee, Center for Advance Computing, 2007–8
chair, Provost Search Committee, 2008
faculty fellow, Carl Becker House, 2007–
member, Frank H.T. Rhodes Class of '56 Professor Selection Committee 2009–

Professional Society Service

vice president, International Astronomical Union, 2006–

member, National Academy of Sciences, Section 12 Nominating Committee, 2002–5
co-chair, 2003–5
member, Class I Membership Committee, 2003–4
chair, Henry Draper Medal Selection Committee, 2004
chair, James Craig Watson Medal Selection Committee, 2006
member, Arctowski Medal Selection Committee, 2009

member, Warner/Pierce Prize Committee, American Astronomical Society, 2008–
chair, 2009

National Advisory Committees

member, Board on Physics and Astronomy, 1991-3, 2008–
member, Division Committee, Engineering and Physical Sciences, National Research
Council, 2003–7,
vice-chair, 2010 Astronomy and Astrophysics Decadal Survey, National Research
Council, 2008–,
member, National Research Council Reports Review Committee, 2007–
vice-chair, NASA Astrophysics Performance Assessment Committee, 2006–7
member, Commission on Mathematics, Physical Sciences and Applications, 1998-2000
chair, Panel on Radio and Submillimeter Astronomy, Astronomy and Astrophysics
Survey Committee, National Research Council, 1998–2000

member, Spectrum Planning and Policy Advisory Committee, National Telecommunications
and Information Administration 1994–2000
US representative, OECD Global Science Forum on “Large Projects in Astronomy”, 2004

Selected Professional Activities (continued):

Institutional Boards and Visiting Committees

- member, Board of Trustees, Associated Universities, Inc. 1994–,
- member, Executive Committee 1996–2004, chairman of the Board 2000–2004
- chair, Strategic Planning Committee, 2004–
- member, ALMA Oversight Committee, 2005–
- member, ALMA Director Search Committee, 2008–
- chair, Radio, Millimeter and Submillimeter Planning Group, chair 2004–6
- member, Future of Radio Astronomy committee, 2007–8

- member, Visiting Committee, Harvard–Smithsonian Center for Astrophysics, 2004–
- chair 2007–8
- member, Visiting Committee, Division of Mathematics, Physics and Astronomy, California Institute of Technology 2006–
- member, Visiting Committee, Department of Astronomy, University of Maryland 2009

- advisor to the Board, Combined Array for Research in Millimeter Astronomy, 2003–
- trustee-at-large, Northeast Radio Observatory Corporation, 2006–
- member, Advisory Committee, National Virtual Observatory, 2004–6
- member of the Board, International Gemini Observatory, 1999–2002

Graduate Student Theses (as principal adviser)

- 1990 Wolfram Freudling, Ph.D., Cornell University
- 1990 Christopher Magri, Ph.D., Cornell University
- 1994 Tracey L. Evans, M.S., Cornell University
- 1995 Nicole P. Vogt, Ph.D., Cornell University
- 1996 Liese Van Zee, Ph.D., Cornell University
- 1997 Katherine P. Jore, Ph.D., Cornell University
- 2000 Elizabeth A. Barrett, M.Engr, Cornell University
- 2000 Katrin S. Hagemann, M.S., Cornell University
- 2001 David A. Kornreich, Ph.D., Cornell University
- 2005 Barbara Catinella, Ph.D., Cornell University
- 2005 Karen L. Masters, Ph.D., Cornell University
- 2006 Christopher M. Springob, Ph.D., Cornell University
- 2009 Sabrina Stierwalt, Ph.D., Cornell University
- (2010) Ann M. Martin, Ph.D., Cornell University (anticipated)
- (2012) Elizabeth A. Adams, Ph.D., Cornell University (anticipated)
- (2012) Shan Huang, Ph.D., Cornell University (anticipated)

Active Research Support Grants

National Science Foundation AST/EXG

“ALFALFA: The Arecibo Extragalactic HI Legacy Survey”
(with R. Giovanelli, co-P.I.)

National Aeronautics and Space Administration, GALEX GI3

“Star Formation in Low Mass ALFALFA Galaxies”

National Aeronautics and Space Administration, GALEX GI4

“Star Formation in Low Mass ALFALFA Galaxies”

National Aeronautics and Space Administration, GALEX GI5

“The Role of Environment in the Evolution of Low Mass ALFALFA Galaxies”

National Aeronautics and Space Administration, Spitzer GO

“A Mid-Infrared Study of Hickson Compact Groups: Probing the
Effects of Environment in Galaxy Interactions”
(E. Le Floch, P.I.)

Brinson Foundation

“A Hunt for Starless Galaxies”

National Science Foundation AST/REU

“REU Support for Undergraduate Research in Observational Astronomy”
(with Y. Terzian, co-P.I.)

National Science Foundation AST/SPA

“The Undergraduate ALFALFA Team”
(R. Koopmann, S. Higdon and T. Balonek, P.I.s)

PUBLICATIONS

“An Interferometer Survey of Normal Galaxies” Haynes, M. and Sramek, R. 1975, *Astron. J.* 80, 673.

“Detection at $z=0.5$ of a 21-cm Absorption Line in AO 0235+164: The First Coincidence of Large Radio and Optical Redshifts” Roberts, M.S., Brown, R.L., Brundage, W.D., Rots, A.H., Haynes, M.P. and Wolfe, A.M. 1976, *Astron. J.* 81, 293.

“On the Structure of High Positive Velocity Clouds” Giovanelli, R. and Haynes, M.P. 1976, *MNRAS* 177, 525.

“Fine Structure in High Velocity HI Gas” Giovanelli, R. and Haynes, M.P. 1977, *AA* 54, 909.

“A Comparison of Neutral Hydrogen 21 cm Observations with UV and Optical Absorption Line Measurements” Giovanelli, R., Haynes, M.P., York, D.G. and Shull J.M. 1978, *Ap. J.* 219, 60.

“A Search for Atomic Hydrogen in Clusters of Galaxies” Haynes, M.P., Brown, R.L. and Roberts, M.S. 1978, *Ap. J.* 221, 414.

“Extended Neutral Hydrogen in the M51 System” Haynes, M.P., Giovanelli, R. and Burkhead, M.S. 1978, *Astron. J.* 83, 938.

“Intergalactic HI and Tidal Debris within Groups of Galaxies” Haynes, M.P. 1979, in *The Large Scale Characteristics of the Galaxy*, ed. by W.B. Burton, (Reidel, Boston), p. 567.

“Are There Really Intergalactic Hydrogen Clouds in the Sculptor Group?” Haynes, M.P. and Roberts, M.S. 1979, *Ap. J.* 227, 767.

“A Detailed Examination of the Neutral Hydrogen Distribution in the Leo Triplet NGC 3623, 3627 and 3628” Haynes, M.P., Giovanelli, R. and Roberts, M.S. 1979, *Ap. J.* 229, 83.

“Neutral Hydrogen in Supernova Remnants: IC 443 and the Cygnus Loop” Giovanelli, R. and Haynes, M.P. 1979, *Ap. J.* 230, 404.

“Velocity Structure in the Magellanic Stream” Haynes, M.P. 1979, *Astron. J.* 84, 1173.

“Intergalactic HI: Tidal Debris and Discrete Clouds” Haynes, M.P. 1979, in *Photometry, Dynamics, and Kinematics of Galaxies*, ed. by D.S. Evans, (Univ. of Texas, Austin), p. 219.

“The Zwicky Cluster Zw 1400+0949 (alias the NGC 5416 Group)” Chincarini, G.L., Giovanelli, R. and Haynes, M.P. 1979, *Astron. J.* 84, 1500.

“Neutral Hydrogen in the Interacting Pair NGC 4725/4747” Haynes, M.P. 1979, *Astron. J.* 84, 1830.

“Bright Galaxies in Nearby Abell Clusters” Haynes, M.P. 1980, *Ap. J. Suppl.* 42, 83.

“Neutral Hydrogen in Isolated Galaxies: First Results for Five Early-type Systems” Haynes, M.P.

and Giovanelli, R. 1980, *Ap. J. Lett.* 240, L87.

“Neutral Hydrogen Emission/Absorption in the Irr II Galaxy NGC 5363” Haynes, M.P. and Giovanelli, R. 1981, *Ap. J. Lett.* 246, L105.

“The HI Content of Galaxies in the Hercules Supercluster: Evidence for Sweeping” Giovanelli, R., Chincarini, G.L. and Haynes, M.P. 1981, *Ap. J.* 247, 383.

“Redshifts of Galaxies in the Galactic Anticenter: A Nearby Group in Orion?” Giovanelli, R. and Haynes, M.P. 1981, *Astron. J.* 86, 340.

“A Search for Neutral Hydrogen in D and cD Galaxies” Burns, J.O., White, R.A. and Haynes, M.P. 1981, *Astron. J.* 86, 1120.

“Neutral Hydrogen Streams in Groups of Galaxies: I. Observations” Haynes, M.P. 1981, *Astron. J.* 86, 1126.

“The Lynx-Ursa Major Supercluster” Giovanelli, R. and Haynes, M.P. 1982, *Astron. J.* 87, 1355.

“The Integral Properties of Isolated Galaxies” Haynes, M.P. 1982, in *The Comparative HI Content of Normal Galaxies*, ed. by M.P. Haynes and R. Giovanelli, (N.R.A.O.: Green Bank), p. 9.

“The Neutral Hydrogen Deficiency of the Cluster A262” Giovanelli, R., Haynes, M.P. and Chincarini, G.L. 1982, *Ap. J.* 262, 442.

“Neutral Hydrogen in Isolated Galaxies: II. The Large Angular Diameter Galaxies” Hewitt, J.N., Haynes, M.P. and Giovanelli, R. 1983, *Astron. J.* 88, 272.

“Neutral Hydrogen in X-ray Cluster Galaxies: A1367” Chincarini, G.L., Giovanelli, R., Haynes, M.P. and Fontanelli, P. 1983, *ApJ* 267, 511.

“21 cm Observations of Supercluster Galaxies: The Bridge between Coma and A1367” Chincarini, G.L., Giovanelli, R. and Haynes, M.P. 1983, *Ap. J.* 269, 13.

“The Geometry of Two Superclusters: Coma/A1367 and Pisces-Perseus” Chincarini, G.L., Giovanelli, R. and Haynes, M.P. 1983, *Astron. Astrophys.* 121, 5.

“The HI Extent and Deficiency of Spiral Galaxies in the Virgo Cluster” Giovanelli, R. and Haynes, M.P. 1983, *Astron. J.* 88, 881.

“Neutral Hydrogen in Isolated Galaxies: III. The Redshift Distribution” Haynes, M.P. and Giovanelli, R. 1983, *Ap. J.* 275, 472.

“The Use of Zwicky Magnitudes in the Computation of Luminosity for Faint Galaxies” Giovanelli, R. and Haynes, M.P. 1984, *Astron. J.* 89, 1.

“A Continuum Survey of Dwarf Galaxies” Altschuler, D.R., Giovanardi, C.E., Giovanelli, R. and Haynes, M.P. 1984, *Astron. J.* 89, 224.

- “Neutral Hydrogen in Isolated Galaxies: IV. Results for the Arecibo Survey” Haynes, M.P. and Giovanelli, R. 1984, *Astron. J.* 89, 758.
- “Radio Continuum Emission in Isolated and Cluster Spirals” Altschuler, D.R., Giovanelli, R. and Haynes, M.P. 1984, *Astron. J.* 89, 1695.
- “The Influence of Environment on the HI Content of Galaxies” Haynes, M.P., Giovanelli, R. and Chincarini, G.L., 1984, *Annu. Rev. Astron. Astrophys.* 22, 445.
- “HI Deficiency in the Virgo Cluster” Haynes, M.P. 1985, in *The Virgo Cluster*, O.-G. Richter and B. Binggeli, eds., (European Southern Observatory: Munich), p. 45.
- “Gas Deficiency in Cluster Spirals: A Comparison of Nine Clusters” Giovanelli, R. and Haynes, M.P. 1985, *Ap. J.* 292, 404.
- “A 21 cm Survey of the Pisces-Perseus Supercluster: I. The Declination Zone +27.5 to +33.5 Degrees” Giovanelli, R. and Haynes, M.P. 1985, *Astron. J.* 90, 2445.
- “Morphological Segregation in the Pisces-Perseus Supercluster” Giovanelli, R., Haynes, M.P., and Chincarini, G.L. 1986, *Ap. J.* 300, 77.
- “UGC 12591: The Most Rapidly Rotating Disk Galaxy” Giovanelli, R., Haynes, M.P., Rubin, V.C. and Ford, W.K. 1986, *Ap. J. Lett.* 301, L7.
- “The Pattern of HI Deficiency in the Virgo Cluster” Haynes, M.P. and Giovanelli, R. 1986, *Ap. J.* 306, 466.
- “The Connection Between Pisces-Perseus and the Local Supercluster” Haynes, M.P. and Giovanelli, R. 1986, *Ap. J. Lett.* 306, L55.
- “A 21 cm Survey of the Pisces-Perseus Supercluster: II. The Declination Zone +21.5 to +27.5 Degrees” Giovanelli, R., Haynes, M.P., Myers, S.R. and Roth, J. 1986, *Astron. J.* 92, 250.
- “Distances and Motions of 2000 Galaxies in the Pisces-Perseus Supercluster” Haynes, M.P. and Giovanelli, R. 1986, in *Galaxy Distances and Deviations from a Universal Expansion*, B. Madore and R.B. Tully, eds. (Reidel: Boston) p. 117.
- “Results on the Large-Scale Structure in the Universe from 21 cm Redshift Surveys” Giovanelli, R. and Haynes, M.P. 1986, *Reports of the XIX I.A.U. General Assembly*, (Reidel: Boston).
- “The Large-Scale Distribution of Galaxy Types” Haynes, M.P. 1987, in *Nearly Normal Galaxies: The Planck Time to the Present Time*, S.M. Faber, ed. (Springer-Verlag: New York) p. 220.
- “A 21 cm Survey of the Pisces-Perseus Supercluster: III. The Region North of Declination +38 Degrees” Haynes, M.P., Giovanelli, R., Starosta, B. and Magri, C.A. 1986, *Astron. J.* 95, 607
- “Large-Scale Structure in the Pisces-Perseus Supercluster” Haynes, M.P. 1987, in *Texas Symposium on Relativistic Astrophysics*, (World Scientific Publishing: Singapore)p. 278.

- “Extragalactic Neutral Hydrogen” Giovanelli, R. and Haynes, M.P. 1988 in *Galactic and Extragalactic Radio Astronomy*, G.L. Verschuur and K.I. Kellermann, eds., (Springer-Verlag: New York), p. 522.
- “Interacting Galaxies and Cluster Environments” Haynes, M.P. 1987, in *Proceedings of a Workshop on the Scientific Prospects of the Arecibo Upgrade*, J. Taylor and T. Hagfors eds., (NAIC: Ithaca) p. 45.
- “Large-Scale Variations in the Luminosity Function of Galaxies” Giovanelli, R. and Haynes, M.P. 1988, in *Towards Understanding Galaxies at High Redshift*, ed. by R.G. Kron and A. Renzini (Kluwer: Hingham), p. 133.
- “Star Formation in Single and Binary Galaxies” Haynes, M.P. and Herter, T.L. 1988, *Astron. J.* 96, 504.
- “The Pattern of Gas Deficiency in Galaxies: A Study in HI and X-rays” Magri, C., Haynes, M.P., Forman, W., Jones, C. and Giovanelli, R. 1988, *Ap. J.* 333, 136.
- “HI Observations of Galaxies in the Hercules Supercluster” Freudling, W., Haynes, M.P. and Giovanelli, R. 1988, *Astron. J.* 96, 1791.
- “Morphology and Environment” Haynes, M.P. 1989, in *The Minnesota Lectures on Clusters of Galaxies and Large-Scale Structure*, ed. by J.M. Dickey, A.S.P. Conf. Ser. 5, 71.
- “A 21 cm Survey of the Pisces-Perseus Supercluster: IV. Addenda to the Declination Zone +21.5° to +33.5°” Giovanelli, R. and Haynes, M.P. 1989, *Astron. J.* 97, 633.
- “Large-Scale Structure in the Local Universe: The Pisces-Perseus Supercluster” Haynes, M.P. and Giovanelli, R. 1988, in *Large-Scale Motions in the Universe*, ed. by V.C. Rubin and G.F. Coyne (Princeton University Press: Princeton) p. 45.
- “Void Statistics, Scaling and the Origins of Large-Scale Structure,” Fry, J.N., Giovanelli, R., Haynes, M.P. and Melott, A.L. 1989, *Ap. J.* 340, 11.
- “Topology of Large Scale Structure in the Universe: Observations” Gott, J.R., Miller, J., Thuan, T.X., Schneider, S.E., Weinberg, D., Gammie, C., Polk, K., Vogeley, M., Jeffrey, S., Bhavsar, S.P., Melott, A.L., Giovanelli, R., Haynes, M.P., Tully, R.B. and Hamilton, A.S. 1989, *Ap. J.* 340, 625.
- “Double Galaxy Redshifts and the Statistics of Small Numbers” Newman, W.I., Haynes, M.P. and Terzian, Y. 1989, *Ap. J.* 344, 111.
- “A Protogalaxy in the Local Supercluster” Giovanelli, R. and Haynes, M.P. 1989, *Ap. J. Lett.* 345, L5.
- “Evidence for Gas Deficiency in Cluster Galaxies” Haynes, M.P. 1990, in *Clusters of Galaxies*, ed. by W.R. Oegerle, M.J. Fitchett and L. Danly, (Cambridge University Press: New York), p. 177.
- “The Influence of Environment on Gas and Dust in S0 Galaxies” Haynes, M.P., Herter, T.L., Barton, A.S., and Benensohn, J.S. 1990, *Astron. J.* 99, 1740.

- “An Optical Counterpart of the Giant HI Cloud - HI 1225+0146” McMahon, R.G., Irwin, M.J., Giovanelli, R., Haynes, M.P., Wolfe, A.M. and Hazard, C. 1990, *Ap. J.* 359, 302.
- “A Complete Arecibo Map of HI 1225+01” Giovanelli, R., Williams, J.P. and Haynes, M.P. 1991, *Astron. J.* 101, 1242.
- “The Optical Counterpart to the Large HI Cloud in Virgo” Salzer, J.J., di Serego Alighieri, S., Matteucci, F., Giovanelli, R. and Haynes, M.P. 1991, *Astron. J.* 101, 1258.
- “The Neutral Hydrogen Content of Early-Type Disk Galaxies” Eder, J., Giovanelli, R. and Haynes, M.P. 1991, *Astron. J.* 102, 532 .
- “The Distribution of Galaxies around NGC 5846” Haynes, M.P. and Giovanelli, R. 1991, *Astron. J.* 102, 841.
- “Redshift Surveys of Galaxies” Giovanelli, R. and Haynes M.P., 1991, *Annu. Rev. Astron. Astrophys.* 29, 499.
- “ The Peculiar Velocity Field in the Hercules Region” Freudling, W., Martel, H. and Haynes, M.P. 1991, *Ap. J.* 377, 365.
- “Neutral Hydrogen Observations of Galaxies in Superclusters” Haynes, M.P. and Giovanelli, R. 1991, *Ap. J. Suppl.* 77, 331.
- “Scale Invariance in the Galaxy Distribution” Guzzo, G., Iovino, A., Chincarini, G.L., Giovanelli, R. and Haynes, M.P. 1991, *Ap. J. Lett.* 382, L5.
- “Dependence of Galaxy Properties on Viewing Angle” Burstein, D., Haynes, M.P. and Faber, S.M. 1991, *Nature* **353**, 515.
- ”HI Observations of Galaxies in the Hercules Supercluster. II. Additional UGC Galaxies and Galaxies in Selected CGCG Fields” Freudling, W.F., Haynes, M.P. and Giovanelli, R. 1992, *Ap. J. Suppl.* 79, 157.
- “Surveys of Galaxy Redshifts” Haynes, M.P. 1992, in *Statistical Challenges in Modern Astronomy*, ed. by G.J. Basu and E.F. Feigelson, (Springer-Verlag: New York) p.3.
- “Limitations to the Method of Power Spectrum Analysis: Nonstationary, Biased Estimators and Weak Convergence to Normality” Newman, W.I., Haynes, M.P. and Terzian, Y.T. 1992, in *Statistical Challenges in Modern Astronomy*, ed. by G.J. Basu and E.F. Feigelson, (Springer-Verlag: New York) p. 137.
- “A Survey of the Pisces–Perseus Supercluster. V. The Declination Strip +33.5° to +39.5° and the Main Supercluster Ridge” Wegner, G., Haynes, M.P. and Giovanelli, R. 1993, *Astron. J.* 105, 1251.
- “A Survey of the Pisces–Perseus Supercluster. VI. The Declination Strip +15.5° to +21.5°” Giovanelli, R. and Haynes, M.P. 1993, *Astron. J.* 105, 1271.
- “Observations of Southern Dwarf Galaxies” Maia, M.A.G., da Costa, L.N., Giovanelli, R., and

Haynes, M.P. 1993, *Astron. J.* 105, 2107.

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“Correlation Functions in the Pisces–Perseus Redshift Survey” Bonometto S., Iovino, A., Guzzo, L. Giovanelli, R. and Haynes, M. 1993, *Ap. J.* 419, 451.

“Galaxy Clustering, Morphology and Luminosity” Iovino, A., Giovanelli, R., Haynes, M., Chin-carini, G. and Guzzo, G. 1993, *MNRAS* 265, 21.

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“The HI Content of Spirals. I. Field Galaxy HI Mass Functions and HI Mass-Optical Size Regressions” Solanes, J.-M., Giovanelli, R. and Haynes, M.P. 1996, *Ap. J.* 461, 609.

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