

## VITA

David C. Jewitt

Year and Place of Birth: 1958, United Kingdom

### Present Address

Institute for Astronomy  
University of Hawaii  
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### Education

|        |                                    |      |
|--------|------------------------------------|------|
| B. Sc. | University of London               | 1979 |
| M. S.  | California Institute of Technology | 1980 |
| Ph. D. | California Institute of Technology | 1983 |

### Professional Experience

|                     |                                       |              |
|---------------------|---------------------------------------|--------------|
| Summer Student      | Royal Greenwich Observatory           | 1978         |
| Anthony Fellowship  | California Institute of Technology    | 1979-80      |
| Research Assistant  | California Institute of Technology    | 1980-1983    |
| Assistant Professor | Massachusetts Institute of Technology | 1983-1988    |
| Associate Professor | University of Hawaii                  | 1988-1993    |
| Professor           | University of Hawaii                  | 1993-present |

### Awards

Regent's Medal, University of Hawaii, 1994  
Scientist of the Year, ARCS, 1996  
Exceptional Scientific Achievement Award, NASA, 1996  
Elected Fellow of University College London, 1998

### Research Interests

Trans-Neptunian Solar System  
Solar System Formation  
Physical Properties of Comets  
Comet - Asteroid Interrelations  
Submillimeter Properties of Comets & Young Stars

## Major Publications

- D. C. Jewitt, G. E. Danielson and S. P. Synott (1979), "Discovery of a New Jupiter Satellite", *Science*, 206, 951.
- D. C. Jewitt and G. E. Danielson (1981), "The Jovian Ring", *Journal of Geophysical Research*, 86, 8691.
- G. Neugebauer, E. E. Becklin, D. C. Jewitt, R. J. Terrile and G. E. Danielson (1981), "Spectra of the Jovian Rings and Amalthea", *Astronomical Journal*, 86, 607.
- D. C. Jewitt, R. J. Terrile and G. E. Danielson (1981), "Ground Based Observations of the Jovian Rings and Amalthea", *Icarus*, 48, 536.
- D. C. Jewitt (1982), "The Ring of Jupiter", Invited Review in *Satellites of Jupiter*, ed. by D. Morrison, University of Arizona Press, Tucson.
- D. C. Jewitt, P. N. Kupferman, G. E. Danielson and S. P. Maran (1982), "Distribution of Forbidden Neutral Carbon Emission in the Ring Nebula (NGC 6720)", *Astrophysical Journal*, 268, 683.
- D. C. Jewitt, B. T. Soifer, G. Neugebauer, K. Matthews, and G. E. Danielson (1982), "Visual and Infrared Observations of the Distant Comets P/Stephan-Oterma, Panther and Bowell", *Astronomical Journal*, 87, 1854.
- D. C. Jewitt (1984), "Coma Expansion and Photometry of Comet Bowell", *Icarus*, 60, 373.
- D. C. Jewitt and G. E. Danielson (1984), "Charge Coupled Device Photometry of Comet P/Halley", *Icarus*, 60, 435.
- R. Remillard and D. C. Jewitt (1985), "A Comparison of the Continuum Spectra of Four Comets", *Icarus*, 64, 27.
- D. C. Jewitt and K. J. Meech (1985), "Rotation of the Nucleus of Comet P/Arend-Rigaux", *Icarus*, 64, 329.
- D. C. Jewitt, G. E. Danielson and P. N. Kupferman (1986), "Halos Around Planetary Nebulae", *Astrophysical Journal*, 302, 727.
- K. J. Meech, D. C. Jewitt and G. R. Ricker (1986), "Early Photometry of Comet P/Halley: Development of the Coma", *Icarus*, 66, 561.
- D. C. Jewitt and K. J. Meech (1986), "Cometary Grain Scattering Versus Wavelength or What Color is Comet Dust?", *Astrophysical Journal*, 310, 937.
- D. C. Jewitt and K. J. Meech (1986), "Scattering Properties of Cometary Grains - Comet Halley", 20th ESLAB Symposium on the Exploration of Halley's Comet, Heidelberg, ESA SP-250.

- K. J. Meech and D. C. Jewitt (1986), "Observations of Comet Halley at Minimum Phase Angle", 20th ESLAB Symposium on the Exploration of Halley's Comet, Heidelberg, ESA SP-250.
- D. C. Jewitt and K. J. Meech (1987), "CCD Photometry of Comet P/Encke", *Astronomical Journal*, 93, 1542.
- D. C. Jewitt and K. J. Meech (1987), "Surface Brightness Profiles of Ten Comets", *Astrophysical Journal*, 317, 992.
- K. J. Meech and D. C. Jewitt (1987), "Comet Bowell at Record Heliocentric Distance", *Nature*, 328, 506.
- K. J. Meech and D. C. Jewitt (1987), "Observations of Comet P/Halley at Minimum Phase Angle", *Astron. & Astrophys.*, 187, 585 - 593.
- D. C. Jewitt and K. J. Meech (1988), "Optical Properties of Cometary Nuclei and a Preliminary Comparison with Asteroids", *Astrophysical Journal*, 328, 974-986.
- J. X. Luu and D. C. Jewitt (1988), "A Two Part Search for Slow Moving Objects", *Astronomical Journal*, 95, 1256-1262.
- D. C. Jewitt and K. J. Meech (1988), "Absence of a Color - Distance Trend in Comets", *Astronomical Journal*, 96, 1723-1730.
- D. C. Jewitt and J. X. Luu (1989), "A CCD Portrait of Comet P/Tempel 2", *Astronomical Journal*, 97, 1766 - 1790.
- J. X. Luu and D. C. Jewitt (1989), "On the Relative Numbers of C-Types and S-Types Among Near Earth Asteroids", *Astronomical Journal*, 98, 1905 - 1911.
- D. C. Jewitt (1990), "The Persistent Coma of Comet P/Schwassmann Wachmann", *Astrophysical Journal*, 351, 277-286.
- J. X. Luu and D. C. Jewitt (1990), "CCD Spectra of Asteroids I. Near-Earth and 3:1 Resonance Asteroids", *Astronomical Journal*, 99, 1985-2011.
- J. X. Luu and D. C. Jewitt (1990), "The Nucleus of Comet P/Encke", *Icarus*, 86, 69-81.
- D. C. Jewitt and J. X. Luu (1990), "CCD Spectra of Asteroids II. The Trojans as Spectral Analogues of Cometary Nuclei", *Astronomical Journal*, 100, 933-944.
- J. X. Luu and D. C. Jewitt (1990), "Cometary Activity in 2060 Chiron", *Astronomical Journal*, 100, 913-932.
- D. C. Jewitt and J. X. Luu (1990), "The Submillimeter Radio Continuum of Comet Brorsen-Metcalf", *Astrophysical Journal*, 365, 738-747.
- D. C. Jewitt (1990), "Far-IR and Submillimeter Radiation from Cometary and Circumstellar Dust", Invited Review for the 24th ESLAB Symposium, "Formation of Stars and Planets and the Evolution of the Solar System", Friedrichshafen, W. Germany. ESA SP-315, 113-120.
- D. C. Jewitt and J. X. Luu (1990), "Submillimeter Photometry of Comets", in Proc. 29th Liege International Astrophysical Colloquium, Liege, Belgium, ESA SP-314.

- D. C. Jewitt (1991), "Planetary Astronomy with Infrared Arrays", in Astrophysics with Infrared Arrays, edited by Richard Elston, A.S.P. Conference Series Vol. 14, pp. 323-328.
- D. C. Jewitt (1991), "Cometary Photometry", invited review for Comets In The Post - Halley Era, eds. R. Newburn, M. Neugebauer and J. Rahe. Kluwer Academic Publishers, Netherlands. pp. 19 - 65.
- D. C. Jewitt and J. X. Luu (1992), "Submillimeter Continuum Observations of 2060 Chiron", *Astronomical Journal*, 104, 398-404.
- J. X. Luu and D. C. Jewitt (1992), "High Resolution Surface Brightness Profiles of Near-Earth Asteroids", *Icarus*, 97, 276-287.
- J. X. Luu and D. C. Jewitt (1992), "Near-Aphelion CCD Photometry of Comet P/Schwassmann Wachmann 2", *Astronomical Journal*, 104, 2243-2249.
- D. C. Jewitt and J. X. Luu (1992), "Submillimeter Continuum Emission from Comets", *Icarus*, 100, 187-196.
- D. C. Jewitt (1992), "Application of Robotic Telescopes to the Physical Investigation of Comets", Invited review for "Symposium on Robotic Telescopes in the 1990's", edited by A. Filippenko, A. S. P. Conference Series, Vol 34, San Francisco, pp. 183-191.
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- P. Kalas and D. Jewitt (1996), "The Detectability of  $\beta$  Pictoris-type Circumstellar Disks Around Nearby Main-Sequence Stars", *Astron. J.*, 111, 1347-1355.
- D. Jewitt (1996), "Debris from Comet P/Swift-Tuttle", *Astron. J.*, 111, 1713-1717.
- J. Luu and D. Jewitt (1996). "The Kuiper Belt". *Scientific American*, May 1996 issue (pp. 48-55).
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- J. Luu and D. Jewitt (1996). "Color Diversity Among the Centaurs and Kuiper Belt Objects", *Astron. J.*, 112, 2310.
- D. Jewitt and H. E. Matthews (1997). "Submillimeter Continuum Observations of Comet Hyakutake (1996B2)", *Astron. J.*, 113, 1145-1151.
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- D. Jewitt and J. Luu (1999). "Kuiper Belt: The Solar System Beyond Neptune". Invited review for Asteroids, Comets, Meteors '96, held Versailles, France, July 8 - 12 1996. In press (or is it permanently lost?).
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Shapes and Phase Functions. *Astronomical Journal*, 124, 1757-1775.

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