

CURRICULUM VITAE
Genevieve J. Graves

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Education

Ph.D., Astronomy & Astrophysics, University of California, Santa Cruz	Expected 2008
Part II, Linguistics Tripos, University of Cambridge (U.K.)	2001-2002
B.A., Astronomy & Astrophysics and Physics, <i>magna cum laude</i> , Harvard University	2001

Research Interests

Galaxy Formation and Evolution
Stellar Populations of Galaxies
Chemical Evolution and Abundance Patterns of Galaxies
LINER Emission in Galaxies

Honors & Awards

Chancellor's Dissertation Year Fellowship, UC Santa Cruz	2008-2009
ARCS Foundation Fellowship	2008-2009
Whitford Prize, UC Santa Cruz Department of Astronomy & Astrophysics (for excellence in first two years of graduate work)	2005
Regent's Fellowship, UC Santa Cruz	2003-2004
Rotary Ambassadorial Fellowship	2001-2002
Leo Goldberg Prize, Harvard University Department of Astronomy & Astrophysics (for best astrophysics undergraduate thesis)	2001

Successful Grants & Proposals

Co-I and principal author of successful 48-orbit/\$166K *Hubble Space Telescope* proposal: UV imaging to determine the location of residual star formation in galaxies recently arrived on the red sequence. (Cycle 16, PI: Faber)

Observing & Software Experience

Keck/DEIMOS multi-object optical spectroscopy (7 nights)
Keck/LRIS long-slit spectroscopy (1 night, solo observer)
Lick Shane 3m KAST optical spectrograph (1 night)
Wrote EZ_Ages software package (IDL code for measuring absorption indices and finding best-fitting abundance pattern for an observed spectrum)

Positions Held

Graduate Student, University of California, Santa Cruz Advisor: Sandra M. Faber	2003–
Teaching Assistant, University of California, Santa Cruz Astronomy 5 with Sandra Faber	2007
Teaching Assistant, University of California, Santa Cruz Astronomy 10 with Stan Woosley	2004
Student Researcher, Harvard University Advisor: Robert Kirshner	2000 – 2001
Student Researcher, University of California, Berkeley Advisor: James Graham	1998 – 1999

Bibliography

First Author Refereed Journal Articles

5. Dissecting the Red Sequence --- II. Star Formation Histories of Early Type Galaxies Throughout the Fundamental Plane. **G. J. Graves**, S. M. Faber, & R. P. Schiavon. Submitted to ApJ.
4. Dissecting the Red Sequence --- I. Star Formation Histories of Early Type Galaxies: The Color-Magnitude vs. the Color-Sigma Relation. **G. J. Graves**, S. M. Faber, & R. P. Schiavon. Submitted to ApJ.
3. Measuring ages and abundances of unresolved stellar populations: Fe, Mg, C, N, and Ca. **G. J. Graves** & R. P. Schiavon. Accepted to ApJS.
2. Ages and abundances of red sequence galaxies as a function of LINER emission-line strength. **G. J. Graves**, S. M. Faber, R. P. Schiavon, & R. Yan. 2007, ApJ, 671, 243
1. Limits from the Hubble Space Telescope on a point source in SN 1987A. **G. J. M. Graves**, P. M. Challis, R. A. Chevalier, A. Crots, A. V. Filippenko, C. Fransson, P. Garnavich, R. P. Kirshner, W. Li, P. Lundqvist, R. McCray, N. Panagia, M. M. Phillips, C. J. S. Pun, B. P. Schmidt, G. Sonneborn, N. B. Suntzeff, L. Wang, & J. C. Wheeler. 2005, ApJ, 629, 944

Other Refereed Journal Articles

3. Optical Spectroscopy of Type Ia Supernovae. T. Matheson, R. P. Kirshner, P. Challis, S. Jha, P. M. Garnavich, P. Berlind, M. L. Calkins, S. Blondin, Z. Balog, A. E. Bragg, N. Caldwell, K. D. Concannon, E. E. Falco, **G. J. M. Graves**, J. P. Huchra, J. Kuraszkiewicz, J. A. Mader, A. Mahdavi, M. Phelps, K. Rines, I. Song, & B. J. Wilkes. 2008, AJ, 135, 1598.
2. The DEEP2 galaxy redshift survey: mean ages and metallicities of red field galaxies at $z \sim 0.9$ from stacked Keck DEIMOS spectra. R. P. Schiavon, S. M. Faber, N. Konidaris, **G. Graves**, C. N. A. Willmer, B. J. Weiner, A. J. Coil, M. C. Cooper, M. Davis, J. Harker, D. C. Koo, J. A. Newman, & R. Yan. 2006, ApJL, 651, 93
1. UBVRI light curves of 44 type Ia supernovae. S. Jha, R. P. Kirshner, P. Challis, P. M. Garnavich, T. Matheson, A. M. Soderberg, **G. J. M. Graves**, M. Hicken, and 76 coauthors. 2006, AJ, 131, 527