## References


Barnes, A; Ball, T; Starr, CR; Seagroves, S; Perez, K; Hunter, L. "Successfully Building a Diverse Telescope Workforce: The Design of the Akamai Internship Program in Hawai'i," In *2018 ASEE Annual Conference & Exposition*, ASEE Conferences, Salt Lake City, Utah, 2018, https://peer.asee.org/31030

Borne, K; Accomazzi, A; Bloom, J; Brunner, R; Burke, D; Butler, N; Chernoff, DF; Connolly, B; Connolly, A; Connors, A; Cutler, C; Desai, S; Djorgovski, G; Feigelson, E; Finn, LS; Freeman, P; Graham, M; Gray, N; Graziani, C; Guinan, EF; Hakkila, J; Jacoby, S; Jefferys, W; Kashyap; Kelly, B; Knuth, K; Lamb, DQ; Lee, H; Loredo, T; Mahabal, A; Mateo, M; McCollum, B; Muench, A; Pesenson, M; Petrosian, V; Primini, F; Protopapas, P; Ptak, A; Quashnock, J; Raddick, MJ; Rocha, G; Ross, N; Rottler, L; Scargle, J; Siemiginowska, A; Song, I; Szalay, A; Tyson, JA; Vestrand, T; Wallin, J; Wandelt, B; Wasserman, IM; Way, M; Weinberg, M; Zezas, A; Anderes, E; Babu, J; Becla, J; Berger, J; Bickel, PJ; Clyde, M; Davidson, I; van Dyk, D; Eastman, T; Efron, B; Genovese, C; Gray, A; Jang, W; Kolaczyk, ED; Kubica, J; Loh, JM; Meng, XL; Moore, A; Morris, R; Park, T; Pike, R; Rice, J; Richards, J; Ruppert, D; Saito, N; Schafer, C; Stark, PB; Stein, M; Sun, J; Wang, D; Wang, Z; Wasserman, L; Wegman, EJ; Willett, R; Wolpert, R; Woodroofe, M. "Astroinformatics: A 21st Century Approach to Astronomy," In *astro2010: The Astronomy and Astrophysics Decadal Survey*, v. 2010, 2009, p. P6

Cunningham, EC; Deason, AJ; Rockosi, CM; Guhathakurta, P; Jennings, ZG; Kirby, EN; Toloba, E; Barro, G. "HALO7D I: The Line of Sight Velocities of Distant Main Sequence Stars in the Milky Way Halo," *arXiv e-prints*, 2018, p. arXiv:1809.04082

Eilers, AC; Hogg, DW; Rix, HW; Ness, MK. "The Circular Velocity Curve of the Milky Way from 5 to 25 kpc," ApJ, v. 871, 2019, p. 120

Grogin, NA; Kocevski, DD; Faber, SM; Ferguson, HC; Koekemoer, AM; Riess, AG; Acquaviva, V; Alexander, DM; Almaini, O; Ashby, MLN; Barden, M; Bell, EF; Bournaud, F; Brown, TM; Caputi, KI; Casertano, S; Cassata, P; Castellano, M; Challis, P; Chary, RR; Cheung, E; Cirasuolo, M; Conselice, CJ; Roshan Cooray, A; Croton, DJ; Daddi, E; Dahlen, T; Davé, R; de Mello, DF; Dekel, A; Dickinson, M; Dolch, T; Donley, JL; Dunlop, JS; Dutton, AA; Elbaz, D; Fazio, GG; Filippenko, AV; Finkelstein, SL; Fontana, A; Gardner, JP; Garnavich, PM; Gawiser, E; Giavalisco, M; Grazian, A; Guo, Y; Hathi, NP; Häussler, B; Hopkins, PF; Huang, JS; Huang, KH; Jha, SW; Kartaltepe, JS; Kirshner, RP; Koo, DC; Lai, K; Lee, KS; Li, W; Lotz, JM; Lucas, RA; Madau, P; McCarthy, PJ; McGrath, EJ; McIntosh, DH; McLure, RJ; Mobasher, B; Moustakas, LA; Mozena, M; Nandra, K; Newman, JA; Niemi, SM; Noeske, KG; Papovich, CJ; Pentericci, L; Pope, A; Primack, JR; Rajan, A; Ravindranath, S; Reddy, NA; Renzini, A; Rix, HW; Robaina, AR; Rodney, SA; Rosario, DJ; Rosati, P; Salimbeni, S; Scarlata, C; Siana, B; Simard, L; Smidt, J; Somerville, RS; Spinrad, H; Straughn, AN; Strolger, LG; Telford, O; Teplitz, HI; Trump, JR; van der Wel, A; Villforth, C; Wechsler, RH; Weiner, BJ; Wiklind, T; Wild, V; Wilson, G; Wuyts, S; Yan, HJ; Yun, MS. "CANDELS: The Cosmic Assembly Near-infrared Deep Extragalactic Legacy Survey," *The Astrophysical Journal Supplement Series*, v. 197, 2011, p. 35

Hemmati, S; Capak, P; Masters, D; Davidzon, I; Dore, O; Mobasher, B; Rhodes, J; Scolnic, D; Stern, D. "Photometric redshift calibration requirements for WFIRST Weak Lensing Cosmology: Predictions from CANDELS," *arXiv e-prints*, 2018

Ho, AYQ; Ness, MK; Hogg, DW; Rix, HW; Liu, C; Yang, F; Zhang, Y; Hou, Y; Wang, Y. "Label Transfer from APOGEE to LAMOST: Precise Stellar Parameters for 450,000 LAMOST Giants," ApJ, v. 836, 2017, p. 5

Kohonen, T. "Cortical maps," Nature, v. 346, 1990, p. 24

Laureijs, R; Amiaux, J; Arduini, S; Augueres, J; Brinchmann, J; Cole, R; Cropper, M; Dabin, C; Duvet, L; Ealet, A; et al. "Euclid Definition Study Report," *arXiv e-prints*, 2011

Le Fèvre, O; Vettolani, G; Garilli, B; Tresse, L; Bottini, D; Le Brun, V; Maccagni, D; Picat, JP; Scaramella, R; Scodeggio, M; Zanichelli, A; Adami, C; Arnaboldi, M; Arnouts, S; Bardelli, S; Bolzonella, M; Cappi, A; Charlot, S; Ciliegi, P; Contini, T; Foucaud, S; Franzetti, P; Gavignaud, I; Guzzo, L; Ilbert, O; Iovino, A; McCracken, HJ; Marano, B; Marinoni, C; Mathez, G; Mazure, A; Meneux, B; Merighi, R; Paltani, S; Pellò, R; Pollo, A; Pozzetti, L; Radovich, M; Zamorani, G; Zucca, E; Bondi, M; Bongiorno, A; Busarello, G; Lamareille, F; Mellier, Y; Merluzzi, P; Ripepi, V; Rizzo, D. "The VIMOS VLT deep survey. First epoch VVDS-deep survey: 11 564 spectra with $17.5 \leq$ IAB $\leq 24$, and the redshift distribution over $0 \leq z \leq 5$," A&A, v. 439, 2005, p. 845–862

Masters, D; Capak, P; Stern, D; Ilbert, O; Salvato, M; Schmidt, S; Longo, G; Rhodes, J; Paltani, S; Mobasher, B; Hoekstra, H; Hildebrandt, H; Coupon, J; Steinhardt, C; Speagle, J; Faisst, A; Kalinich, A; Brodwin, M; Brescia, M; Cavuoti, S. "Mapping the Galaxy Color-Redshift Relation: Optimal Photometric Redshift Calibration Strategies for Cosmology Surveys," ApJ, v. 813, 2015, p. 53

National Research Council, *Optimizing the U.S. Ground-Based Optical and Infrared Astronomy System*, The National Academies Press, Washington, DC, ISBN 978-0-309-37186-5, 2015

Ness, M; Hogg, DW; Rix, HW; Ho, AYQ; Zasowski, G. "The Cannon: A data-driven approach to Stellar Label Determination," ApJ, v. 808, 2015, p. 16

Newman, JA; Abate, A; Abdalla, FB; Allam, S; Allen, SW; Ansari, R; Bailey, S; Barkhouse, WA; Beers, TC; Blanton, MR; Brodwin, M; Brownstein, JR; Brunner, RJ; Carrasco Kind, M; Cervantes-Cota, JL; Cheu, E; Chisari, NE; Colless, M; Comparat, J; Coupon, J; Cunha, CE; de la Macorra, A; Dell'Antonio, IP; Frye, BL; Gawiser, EJ; Gehrels, N; Grady, K; Hagen, A; Hall, PB; Hearin, AP; Hildebrandt, H; Hirata, CM; Ho, S; Honscheid, K; Huterer, D; Ivezić, Ž; Kneib, JP; Kruk, JW; Lahav, O; Mandelbaum, R; Marshall, JL; Matthews, DJ; Ménard, B; Miquel, R; Moniez, M; Moos, HW; Moustakas, J; Myers, AD; Papovich, C; Peacock, JA; Park, C; Rahman, M; Rhodes, J; Ricol, JS; Sadeh, I; Slozar, A; Schmidt, SJ; Stern, DK; Anthony Tyson, J; von der Linden, A; Wechsler, RH; Wood-Vasey, WM; Zentner, AR. "Spectroscopic needs for imaging dark energy experiments," *Astroparticle Physics*, v. 63, 2015, p. 81–100

Newman, JA; Cooper, MC; Davis, M; Faber, SM; Coil, AL; Guhathakurta, P; Koo, DC; Phillips, AC; Conroy, C; Dutton, AA; Finkbeiner, DP; Gerke, BF; Rosario, DJ; Weiner, BJ; Willmer, CNA; Yan, R; Harker, JJ; Kassin, SA; Konidaris, NP; Lai, K; Madgwick, DS; Noeske, KG; Wirth, GD; Connolly, AJ; Kaiser, N; Kirby, EN; Lemaux, BC; Lin, L; Lotz, JM; Luppino, GA; Marinoni, C; Matthews, DJ; Metevier, A; Schiavon, RP. "The DEEP2 Galaxy Redshift Survey: Design, Observations, Data Reduction, and Redshifts," ApJS, v. 208, 2013, p. 5

Parks, D; Prochaska, JX; Dong, S; Cai, Z. "Deep learning of quasar spectra to discover and characterize damped Ly$\alpha$ systems," MNRAS, v. 476, 2018, p. 1151–1168

Sanderson, RE; Hartke, J; Helmi, A. "Modeling the Gravitational Potential of a Cosmological Dark Matter Halo with Stellar Streams," ApJ, v. 836, 2017, p. 234

Ting, YS; Conroy, C; Rix, HW; Cargile, P. "The Payne: self-consistent ab initio fitting of stellar spectra," *arXiv e-prints*, 2018, p. arXiv:1804.01530

Ting, YS; Rix, HW. "The vertical motion history of disk stars throughout the Galaxy," *arXiv e-prints*, 2018, p. arXiv:1808.03278