

# Curtis McCully

## Publications

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### First Author Journal Articles

5. **McCully, C.**, Hiramatsu, D., Howell, D. Andrew, Hosseinzadeh, G., Arcavi, I., Kasen, D., Barnes, J., Shara, M. M., Williams, T. B., Väisänen, P., Potter, S. B., Romero-Colmenero, E., Crawford, S. M., Buckley, D. A. H., Cooke, J., Andreoni, I., Pritchard, T. A., Mao, J., Gromadzki, M., & Burke, J. 2017, “*The Rapid Reddening and Featureless Optical Spectra of the Optical Counterpart of GW170817, AT 2017gfo, during the First Four Days*”, *ApJL*, **848**, L32.
4. **McCully, C.**, Keeton, C. R., Wong, K. C., & Zabludoff, A. I. 2017, “*Quantifying Environmental and Line-of-sight Effects in Models of Strong Gravitational Lens Systems*”, *ApJ*, **836**, 141.
3. **McCully, C.**, Keeton, C. R., Wong, K. C., & Zabludoff, A. I. 2014, “*A new hybrid framework to efficiently model lines of sight to gravitational lenses*”, *MNRAS*, **443**, 3631.
2. **McCully, C.**, Jha, S. W., Foley, R. J., Bildsten, L., Fong, W.-F., Kirshner, R. P., Marion, G. H., Riess, A. G., & Stritzinger, M. D. 2014, “*A luminous, blue progenitor system for the type Ia supernova 2012Z*”, *Nature*, **512**, 54.
1. **McCully, C.**, Jha, S. W., Foley, R. J., Chornock, R., Holtzman, J. A., Balam, D. D., Branch, D., Filippenko, A. V., Frieman, J., Fynbo, J., Galbany, L., Ganeshalingam, M., Garnavich, P. M., Graham, M. L., Hsiao, E. Y., Leloudas, G., Leonard, D. C., Li, W., Riess, A. G., Sako, M., Schneider, D. P., Silverman, J. M., Sollerman, J., Steele, T. N., Thomas, R. C., Wheeler, J. Craig, & Zheng, C. 2014, “*Hubble Space Telescope and Ground-based Observations of the Type Ia Supernovae SN 2005hk and SN 2008A*”, *ApJ*, **786**, 134.

### Major Contribution Journal Articles

11. Brandt, G. Mirek, Brandt, T. D., & **McCully, C.** 2020, “*Automatic Échelle Spectrograph Wavelength Calibration*”, *AJ*, **160**, 25.
10. Takaro, T., Foley, R. J., **McCully, C.**, Fong, W.-F., Jha, S. W., Narayan, G., Rest, A., Stritzinger, M., & McKinnon, K. 2020, “*Constraining Type Ia supernova progenitor systems with stellar population age dating*”, *MNRAS*, **493**, 986.
9. Hosseinzadeh, G., **McCully, C.**, Zabludoff, A. I., Arcavi, I., French, K. Decker, Howell, D. Andrew, Berger, E., & Hiramatsu, D. 2019, “*Type Ibn Supernovae May not all Come from Massive Stars*”, *ApJL*, **871**, L9.
8. Hovey, L., Hughes, J. P., **McCully, C.**, Pandya, V., & Eriksen, K. 2018, “*Constraints on Cosmic-ray Acceleration Efficiency in Balmer Shocks of Two Young Type Ia Supernova Remnants in the Large Magellanic Cloud*”, *ApJ*, **862**, 148.
7. Hosseinzadeh, G., Valenti, S., **McCully, C.**, Howell, D. Andrew, Arcavi, I., Jerkstrand, A., Guevel, D., Tartaglia, L., Rui, L., Mo, J., Wang, X., Huang, F., Song, H., Zhang, T., & Itagaki,

- K. 2018, “Short-lived Circumstellar Interaction in the Low-luminosity Type IIP SN 2016bkv”, *ApJ*, **861**, 63.
6. Kerzendorf, W. E., **McCully, C.**, Taubenberger, S., Jerkstrand, A., Seitzzahl, I., Ruiter, A. J., Spyromilio, J., Long, K. S., & Fransson, C. 2017, “Extremely late photometry of the nearby SN 2011fe”, *MNRAS*, **472**, 2534.
  5. Andrews, J. E., Smith, N., **McCully, C.**, Fox, O. D., Valenti, S., & Howell, D. A. 2017, “Optical and IR observations of SN 2013L, a Type II<sub>n</sub> Supernova surrounded by asymmetric CSM”, *MNRAS*, **471**, 4047.
  4. Arcavi, I., **McCully, C.**, Hosseinzadeh, G., Howell, D. Andrew, Vasylyev, S., Poznanski, D., Zaltzman, M., Maoz, D., Singer, L., Valenti, S., Kasen, D., Barnes, J., Piran, T., & Fong, W.-F. 2017, “Optical Follow-up of Gravitational-wave Events with Las Cumbres Observatory”, *ApJL*, **848**, L33.
  3. Foley, R. J., Fox, O. D., **McCully, C.**, Phillips, M. M., Sand, D. J., Zheng, W., Challis, P., Filippenko, A. V., Folatelli, G., Hillebrandt, W., Hsiao, E. Y., Jha, S. W., Kirshner, R. P., Kromer, M., Marion, G. H., Nelson, M., Pakmor, R., Pignata, G., Röpke, F. K., Seitzzahl, I. R., Silverman, J. M., Skrutskie, M., & Stritzinger, M. D. 2014, “Extensive HST ultraviolet spectra and multiwavelength observations of SN 2014J in M82 indicate reddening and circumstellar scattering by typical dust”, *MNRAS*, **443**, 2887.
  2. Foley, R. J., **McCully, C.**, Jha, S. W., Bildsten, L., Fong, W.-F., Narayan, G., Rest, A., & Stritzinger, M. D. 2014, “Possible Detection of the Stellar Donor or Remnant for the Type Ia<sub>x</sub> Supernova 2008ha”, *ApJ*, **792**, 29.
  1. Patel, B., **McCully, C.**, Jha, S. W., Rodney, S. A., Jones, D. O., Graur, O., Merten, J., Zitrin, A., Riess, A. G., Matheson, T., Sako, M., Holoien, T. W.-S., Postman, M., Coe, D., Bartelmann, M., Balestra, I., Benítez, N., Bouwens, R., Bradley, L., Broadhurst, T., Cenko, S. Bradley, Donahue, M., Filippenko, A. V., Ford, H., Garnavich, P., Grillo, C., Infante, L., Jouvel, S., Kelson, D., Koekemoer, A., Lahav, O., Lemze, D., Maoz, D., Medezinski, E., Melchior, P., Meneghetti, M., Molino, A., Moustakas, J., Moustakas, L. A., Nonino, M., Rosati, P., Seitz, S., Strolger, L. G., Umetsu, K., & Zheng, W. 2014, “Three Gravitationally Lensed Supernovae behind CLASH Galaxy Clusters”, *ApJ*, **786**, 9.

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## Collaboration Journal Articles

89. Müller-Bravo, T. E., Gutiérrez, C. P., Sullivan, M., Jerkstrand, A., Anderson, J. P., González-Gaitán, S., Sollerman, J., Arcavi, I., Burke, J., Galbany, L., Gal-Yam, A., Gromadzki, M., Hiramatsu, D., Hosseinzadeh, G., Howell, D. Andrew, Inserra, C., Kankare, E., Kozyreva, A., **McCully, C.**, Nicholl, M., Smartt, S., Valenti, S., & Young, D. R. 2020, “The low-luminosity type II SN 2016aqf: A well-monitored spectral evolution of the Ni/Fe abundance ratio”, *arXiv* : [2006.15028](https://arxiv.org/abs/2006.15028).
88. Bostroem, K. A., Valenti, S., Sand, D. J., Andrews, J. E., Van Dyk, S. D., Galbany, L., Pooley, D., Amaro, R. C., Smith, N., Yang, S., Anupama, G. C., Arcavi, I., Baron, E., Brown, P. J., Burke, J., Cartier, R., Hiramatsu, D., Dastidar, R., DerKacy, J. M., Dong, Y., Egami, E., Ertel, S., Filippenko, A. V., Fox, O. D., Haislip, J., Hosseinzadeh, G., Howell, D. A., Gangopadhyay, A., Jha, S. W., Kouprianov, V., Kumar, B., Lundquist, M., Milisavljevic, D., **McCully, C.**,

- Milne, P., Misra, K., Reichart, D. E., Sahu, D. K., Sai, H., Singh, A., Smith, P. S., Vinko, J., Wang, X., Wang, Y., Wheeler, J. C., Williams, G. G., Wyatt, S., Zhang, J., & Zhang, X. 2020, “Discovery and Rapid Follow-up Observations of the Unusual Type II SN 2018ivc in NGC 1068”, *ApJ*, 895, 31.
87. Bedding, T. R., Murphy, S. J., Hey, D. R., Huber, D., Li, T., Smalley, B., Stello, D., White, T. R., Ball, W. H., Chaplin, W. J., Colman, I. L., Fuller, J., Gaidos, E., Harbeck, D. R., Hermes, J. J., Holdsworth, D. L., Li, G., Li, Y., Mann, A. W., Reese, D. R., Sekaran, S., Yu, J., Antoci, V., Bergmann, C., Brown, T. M., Howard, A. W., Ireland, M. J., Isaacson, H., Jenkins, J. M., Kjeldsen, H., **McCully, C.**, Rabus, M., Rains, A. D., Ricker, G. R., Tinney, C. G., & Vanderspek, R. K. 2020, “Very regular high-frequency pulsation modes in young intermediate-mass stars”, *Nature*, 581, 147.
86. Jacobson-Galán, W. V., Margutti, R., Kilpatrick, C. D., Hiramatsu, D., Perets, H., Khatami, D., Foley, R. J., Raymond, J., Yoon, S.-C., Bobrick, A., Zenati, Y., Galbany, L., Andrews, J., Brown, P. J., Cartier, R., Coppejans, D. L., Dimitriadis, G., Dobson, M., Hajela, A., Howell, D. Andrew, Kuncarayakti, H., Milisavljevic, D., Rahman, M., Rojas-Bravo, C., Sand, D. J., Shepherd, J., Smartt, S. J., Stacey, H., Stroh, M., Swift, J. J., Terreran, G., Vinko, J., Wang, X., Anderson, J. P., Baron, E. A., Berger, E., Blanchard, P. K., Burke, J., Coulter, D. A., DeMarchi, L., DerKacy, J. M., Fremling, C., Gomez, S., Gromadzki, M., Hosseinzadeh, G., Kasen, D., Kriskovics, L., **McCully, C.**, Müller-Bravo, T. E., Nicholl, M., Ordasi, A., Pellegrino, C., Piro, A. L., Pál, A., Ren, J., Rest, A., Rich, R. Michael, Sai, H., Sárneczky, K., Shen, K. J., Short, P., Siebert, M., Stauffer, C., Szakáts, R., Zhang, X., Zhang, J., & Zhang, K. 2020, “SN 2019ehk: A Double-Peaked Ca-rich Transient with Luminous X-ray Emission and Shock-Ionized Spectral Features”, *arXiv* : 2005.01782.
85. Han, X., Zheng, W., Stahl, B. E., Burke, J., Vinko, J., Jaeger, T. de, Arcavi, I., Brink, T. G., Cseh, B., Hiramatsu, D., Hosseinzadeh, G., Howell, D. Andrew, Ignacz, B., Konyves-Toth, R., Krezinger, M., **McCully, C.**, Ordasi, A., Pinter, D., Sárneczky, K., Szakats, R., Tang, K., Vida, K., Wang, J., Wei, J., Wheeler, J. Craig, Xin, L., & Filippenko, A. V. 2020, “SN 2017cfd: A Normal Type Ia Supernova Discovered Very Young”, *ApJ*, 892, 142.
84. Steinhardt, C. L., Jauzac, M., Acebron, A., Atek, H., Capak, P., Davidzon, I., Eckert, D., Harvey, D., Koekemoer, A. M., Lagos, C. D. P., Mahler, G., Montes, M., Niemiec, A., Nonino, M., Oesch, P. A., Richard, J., Rodney, S. A., Schaller, M., Sharon, K., Strolger, L.-G., Allingham, J., Amara, A., Bahé, Y., Boehm, C., Bose, S., Bouwens, R. J., Bradley, L. D., Brammer, G., Broadhurst, T., Cañas, R., Cen, R., Clément, B., Clowe, D., Coe, D., Connor, T., Darvish, B., Diego, J. M., Ebeling, H., Edge, A. C., Egami, E., Etori, S., Faisst, A. L., Frye, B., Furtak, L. J., Gómez-Guijarro, C., Remolina González, J. D., Gonzalez, A., Graur, O., Gruen, D., Harvey, D., Hensley, H., Hovis-Afflerbach, B., Jablonka, P., Jha, S. W., Jullo, E., Kneib, J.-P., Kokorev, V., Lagattuta, D. J., Limousin, M., von der Linden, A., Linzer, N. B., Lopez, A., Magdis, G. E., Massey, R., Masters, D. C., Maturi, M., **McCully, C.**, McGee, S. L., Meneghetti, M., Mobasher, B., Moustakas, L. A., Murphy, E. J., Natarajan, P., Neyrinck, M., O’Connor, K., Oguri, M., Pagul, A., Rhodes, J., Rich, R. Michael, Robertson, A., Sereno, M., Shan, H., Smith, G. P., Sneppen, A., Squires, G. K., Tam, S.-I., Tchernin, C., Toft, S., Umetsu, K., Weaver, J. R., van Weeren, R. J., Williams, L. L. R., Wilson, T. J., Yan, L., & Zitrin, A. 2020, “The BUFFALO HST Survey”, *ApJS*, 247, 64.

83. French, K. Decker, Arcavi, I., Zabludoff, A. I., Stone, N., Hiramatsu, D., van Velzen, S., **McCully, C.**, & Jiang, N. 2020, “*The Structure of Tidal Disruption Event Host Galaxies on Scales of Tens to Thousands of Parsecs*”, *ApJ*, **891**, 93.
82. Pellegrino, C., Howell, D. A., Sarbadhicary, S. K., Burke, J., Hiramatsu, D., **McCully, C.**, Milne, P. A., Andrews, J. E., Brown, P., Chomiuk, L., Hsiao, E. Y., Sand, D. J., Shahbandeh, M., Smith, N., Valenti, S., Vinkó, J., Wheeler, J. C., Wyatt, S., & Yang, Y. 2020, “*Constraining the Source of the High Velocity Ejecta in the Type Ia SN 2019ein*”, *arXiv* : 2003.05946.
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80. Tartaglia, L., Pastorello, A., Sollerman, J., Fransson, C., Mattila, S., Fraser, M., Taddia, F., Tomasella, L., Turatto, M., Morales-Garoffolo, A., Elias-Rosa, N., Lundqvist, P., Harmanen, J., Reynolds, T., Cappellaro, E., Barbarino, C., Nyholm, A., Kool, E., Ofek, E., Gao, X., Jin, Z., Tan, H., Sand, D. J., Ciabattari, F., Wang, X., Zhang, J., Huang, F., Li, W., Mo, J., Rui, L., Xiang, D., Zhang, T., Hosseinzadeh, G., Howell, D. A., **McCully, C.**, Valenti, S., Benetti, S., Callis, E., Carracedo, A. S., Fremling, C., Kangas, T., Rubin, A., Somero, A., & Terreran, G. 2020, “*The long-lived Type II<sub>n</sub> SN 2015da: Infrared echoes and strong interaction within an extended massive shell*”, *A&A*, **635**, A39.
79. Gangopadhyay, A., Misra, K., Hiramatsu, D., Wang, S.-Q., Hosseinzadeh, G., Wang, X., Valenti, S., Zhang, J., Howell, D. Andrew, Arcavi, I., Anupama, G. C., Burke, J., Dastidar, R., Itagaki, K., Kumar, B., Kumar, B., Li, L., **McCully, C.**, Mo, J., Pandey, S. Bhushan, Pellegrino, C., Sai, H., Sahu, D. K., Sanwal, P., Singh, A., Singh, M., Zhang, J., Zhang, T., & Zhang, X. 2020, “*Flash Ionization Signatures in the Type Ibn Supernova SN 2019uo*”, *ApJ*, **889**, 170.
78. Dastidar, R., Misra, K., Valenti, S., Burke, J., Hosseinzadeh, G., Gangopadhyay, A., Howell, D. Andrew, Singh, M., Arcavi, I., Kumar, B., **McCully, C.**, Sanwal, P., & Pandey, S. B. 2019, “*SN 2015an: a normal luminosity type II supernova with low expansion velocity at early phases*”, *MNRAS*, **490**, 1605.
77. Andrews, J. E., Sand, D. J., Valenti, S., Smith, N., Dastidar, R., Sahu, D. K., Misra, K., Singh, A., Hiramatsu, D., Brown, P. J., Hosseinzadeh, G., Wyatt, S., Vinko, J., Anupama, G. C., Arcavi, I., Ashall, C., Benetti, S., Berton, M., Bostroem, K. A., Bulla, M., Burke, J., Chen, S., Chomiuk, L., Cikota, A., Congiu, E., Cseh, B., Davis, S., Elias-Rosa, N., Faran, T., Fraser, M., Galbany, L., Gall, C., Gal-Yam, A., Gangopadhyay, A., Gromadzki, M., Haislip, J., Howell, D. A., Hsiao, E. Y., Inserra, C., Kankare, E., Kuncarayakti, H., Kouprianov, V., Kumar, B., Li, X., Lin, H., Maguire, K., Mazzali, P., **McCully, C.**, Milne, P., Mo, J., Morrell, N., Nicholl, M., Ochner, P., Olivares, F., Pastorello, A., Patat, F., Phillips, M., Pignata, G., Prentice, S., Reguitti, A., Reichart, D. E., Rodríguez, Ó., Rui, L., Sanwal, P., Sárneczky, K., Shahbandeh, M., Singh, M., Smartt, S., Strader, J., Stritzinger, M. D., Szakáts, R., Tartaglia, L., Wang, H., Wang, L., Wang, X., Wheeler, J. C., Xiang, D., Yaron, O., Young, D. R., & Zhang, J. 2019, “*SN 2017qmr: An Energetic Type II-P Supernova with Asymmetries*”, *ApJ*, **885**, 43.
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75. Brown, P. J., Hosseinzadeh, G., Jha, S. W., Sand, D., Vieira, E., Wang, X., Dai, M., Dettman, K. G., Mould, J., Uddin, S., Wang, L., Arcavi, I., Bento, J., Burns, C. R., Diamond, T., Hiramatsu, D., Howell, D. Andrew, Hsiao, E. Y., Marion, G. H., **McCully, C.**, Milne, P. A., Mirzaqulov, D., Ruiter, A. J., Valenti, S., & Xiang, D. 2019, “*Red and Reddened: Ultraviolet through Near-infrared Observations of Type Ia Supernova 2017erp*”, *ApJ*, **877**, 152.
74. Bostroem, K. Azalee, Valenti, S., Horesh, A., Morozova, V., Kuin, N. Paul M., Wyatt, S., Jerkstrand, A., Sand, D. J., Lundquist, M., Smith, M., Sullivan, M., Hosseinzadeh, G., Arcavi, I., Callis, E., Cartier, R., Gal-Yam, A., Galbany, L., Gutiérrez, C., Howell, D. Andrew, Inserra, C., Kankare, E., López, K. Marisol, **McCully, C.**, Pignata, G., Piro, A. L., Rodríguez, Ó., Smartt, S. J., Smith, K. W., Yaron, O., & Young, D. R. 2019, “*Signatures of circumstellar interaction in the Type III supernova ASASSN-15oz*”, *MNRAS*, **485**, 5120.
73. Sand, D. J., Amaro, R. C., Moe, M., Graham, M. L., Andrews, J. E., Burke, J., Cartier, R., Eweis, Y., Galbany, L., Hiramatsu, D., Howell, D. A., Jha, S. W., Lundquist, M., Matheson, T., **McCully, C.**, Milne, P., Smith, N., Valenti, S., & Wyatt, S. 2019, “*Nebular HaLimits for Fast Declining SNe Ia*”, *ApJL*, **877**, L4.
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