

STEVEN A. RODNEY

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Professional Preparation

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|---|---------------|-----------|-------------|
| Case Western Reserve University | Cleveland, OH | Physics | B.S., 2003 |
| Case Western Reserve University | Cleveland, OH | Astronomy | B.S., 2003 |
| Institute for Astronomy, University of Hawai'i at Mānoa | Honolulu, HI | Astronomy | M.S., 2005 |
| Institute for Astronomy, University of Hawai'i at Mānoa | Honolulu, HI | Astronomy | Ph.D., 2010 |
| Johns Hopkins University | Baltimore, MD | Astronomy | 2010–2015 |

Appointments

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| 2015–present | Assistant Professor, University of South Carolina |
| 2012–2015 | Hubble Postdoctoral Research Fellow, Johns Hopkins University |
| 2010–2012 | Assistant Research Scientist, Johns Hopkins University |

Selected Publications

Names underlined indicate graduate students supervised or co-supervised by S.R. at time of publication.

1. *Turning Gravitationally Lensed Supernovae into Cosmological Probes*
Pierel, J. R. & **Rodney, S. A.** 2019, arXiv:1902.01260 (accepted to ApJ)
2. *Extending Supernova Spectral Templates for Next-generation Space Telescope Observations.*
Pierel, J. D. R., **Rodney, S.**, Avelino, A., et al. 2018, PASP,130,114504
3. *Two peculiar fast transients in a strongly lensed host galaxy.*
Rodney, S. A., Balestra, I., Bradac, M., et al. 2018, Nature Astronomy, 2, 324
4. *Type Ia Supernova Distances at Redshift > 1.5 from the Hubble Space Telescope Multi-cycle Treasury Programs: The Early Expansion Rate.*
Riess, A. G., **Rodney, S. A.**, Scolnic, D. M., et al. 2018, ApJ, 853, 126
5. *SN Refsdal: Photometry and Time Delay Measurements of the First Einstein Cross Supernova*
Rodney, S. A., Strolger, L.-G., Kelly, P. (+16 co-authors) 2016, ApJ, 820, 50
6. *Deja Vu All Over Again: The Reappearance of Supernova Refsdal*
Kelly, P., **Rodney, S.A.**, Strolger, L.-G. (+17 co-authors) 2016, ApJ, 819, 8
7. *Illuminating a Dark Lens : A Type Ia Supernova Magnified by the Frontier Fields Galaxy Cluster Abell 2744*
Rodney, Patel, Scolnic (+27 co-authors) 2015, ApJ, 811, 70;

8. *Multiple Images of a Highly Magnified Supernova Formed by an Early-Type Cluster Galaxy Lens*
Kelly, P., **Rodney, S.**, Treu, T. (+28 co-authors) 2015, *Science*, 347, 1123
9. *Two Type Ia Supernovae at $z \sim 2$: Improved Classification and Redshift Determination with Medium-band IR Imaging*
Rodney, Riess, Scolnic, Jones, Hemmati, Molino, McCully, Mobasher, Strolger, Graur, Hayden, and Casertano 2015, *AJ*, 150, 156
10. *Three Gravitationally Lensed Supernovae behind CLASH Galaxy Clusters*
Patel, McCully, Jha, **Rodney** (+40 co-authors) 2014, *ApJ*, 786, 9

Synergistic Activities

1. 2019: Named to a 2-year appointment as a *Teaching Associate* in the USC College of Arts & Sciences Teaching Innovation Incubator
2. 2018: Initiated the USC Chapter for the Institute for Scientist and Engineer Educators, sponsoring graduate students for training in effective teaching and learning design.
3. 2016: Lead PI for the ASTR 101 Course Transformation project, a 2-year effort to revamp the introductory astronomy course design with more active learning.
4. 2016: Launched a new outreach program: The Carolina Distinguished Lecture Series in Physics & Astronomy, bringing eminent scholars to the USC campus for free public lectures. Consistently draws >200 attendees.
5. 2015: Developed a new introductory astronomy course, ASTR 201: The Dark Universe, which can satisfy the *Scientific Literacy* requirement in the *Carolina Core* curriculum for all USC students.