

Biographical Sketch: Scott Dodelson

Education and Training

Columbia College and School of Engineering, Joint BA/BS Applied Physics 1983
 Columbia University, Physics, PhD, 1988

Research and Professional Experience

2017–present Professor and Head, Department of Physics, Carnegie Mellon University
 2004–2017 Professor, Department of Astronomy and Astrophysics, The University of Chicago
 2011–2017 Distinguished Scientist, Fermilab
 2004–2011 Scientist II, Fermilab
 2006–2008 Acting Director, Fermi Center for Particle Astrophysics
 2004–2005 Visiting Professor, Northwestern University
 2001–2006 Head, Theoretical Astrophysics Group, Fermilab
 1999–2004 Associate Professor, Department of Astronomy and Astrophysics, The University of Chicago
 1999–2004 Scientist I, Fermilab
 1994–1999 Associate Scientist, Fermilab
 1988–1991 Research Associate, Harvard University
 1991–1994 Research Associate, Fermi National Accelerator Laboratory, Theoretical Astrophysics

Selected Publications

1. DES Collaboration, “Dark Energy Survey Year 1 Results: Cosmological Constraints from Galaxy Clustering and Weak Lensing,” arXiv: 1708.01530.
2. S. Dodelson, “Gravitational Lensing”, Cambridge University Press (2017).
3. E. Krause et al., “Dark Energy Survey Year 1 Results: Multi-Probe Methodology and Simulated Likelihood Analyses,” arXiv: 1706.09359.
4. S. Passaglia et al., “Cross-correlating 2D and 3D galaxy surveys,” **Phys. Rev. D** **95** 123508 (2017).
5. Y. Park et al., “Joint analysis of galaxy-galaxy lensing and galaxy clustering: Methodology and forecasts for Dark Energy Survey,” **Phys. Rev. D** **94**, 063533 (2016).
6. E.J. Baxter et al., “A Measurement of Gravitational Lensing of the Cosmic Microwave Background by Galaxy Clusters Using Data from the South Pole Telescope,” **Astrophys. J.** 806, 247 (2015).
7. J. Zuntz et al., “CosmoSIS: Modular Cosmological Parameter Estimation,” **Astron. Comput.** 12, 45 (2015).
8. S. Dodelson, “How much can we learn about the physics of inflation?” **Phys. Rev. Lett.** 112, 191301 (2014).
9. P. Zhang, et al., “Probing Gravity at Cosmological Scales by Measurements which Test the Relationship between Gravitational Lensing and Matter Overdensity,” **Phys. Rev. Lett.** 99, 141302 (2007).
10. S. Dodelson and M. Liguori, “Can Cosmic Structure form without Dark Matter?,” **Phys. Rev. Lett.** 97, 231301 (2006).
11. S. Dodelson, “Modern Cosmology,” Elsevier (2003).

Synergistic Activities

2016–present: Co-Chair, DES Science Committee
 2016–present: Treasurer, Aspen Center for Physics

2012-2017: Co-Convener, LSST DESC Software and Infrastructure Working Group
 2015-2017: Chair, DOE-HEP Cosmic Visions: Dark Energy
 2014-present: Member, Scientific Organizing Committee, every CMB-S4 meeting
 2013-14: Member, Particle Physics Project Prioritization Panel (P5)
 2013-2015: Science Advisory Council, Fermilab
 2013-17: Secretary-Treasurer, Division of Astrophysics, American Physical Society
 2012: DOE HEP Dark Energy Science Plan Task Force
 2012: Hans Bethe Award Committee, APS
 2012-13: Co-convener, “Dark Energy and the CMB,” sub-group, Snowmass Community Study
 2011-2017: Co-lead, Inflation MA, Physics Frontier Center
 2011-16: Co-convener, DES Theory and Combined Probes Working Group
 2008-2017: Editor, Physics Letters B
 2006–present: Member, Aspen Center for Physics
 2004-08: Managing Editor, International Journal for Physics D
 2004-06: Divisional Editor, Physical Review D
 2003-2012: Editor, Journal of Astroparticle Physics

Ph.D.Advisor: Ph.D Thesis Advisor: Gerald Feinberg (Columbia)

Postdoctoral Advisors: Tai Tsun Wu (Harvard), Rocky Kolb and Michael Turner (Fermilab)

Graduate Student and Selected Postdoctoral Advisees

Kim Coble (Graduate Student): Faculty, San Francisco State University
 Ryan Scranton (Graduate Student): [google](#)
 Eduardo Rozo (Graduate Student): Faculty, Arizona
 Fabian Schmidt (Graduate Student): Faculty, Munich
 Melanie Simet (Graduate Student): Postdoc, UC Irvine
 Eric Baxter (Graduate Student): Postdoc, Penn
 Youngsoo Park (Graduate Student): Postdoc, Arizona
 Alessandro Manzotti (Graduate Student): Postdoc, Paris
 Stephane Colombi (Postdoc): Faculty, IAP
 Lam Hui (Postdoc): Faculty, Columbia
 Ewan Stewart (Postdoc): Faculty, KAIST
 Nicole Bell (Postdoc): Faculty, Melbourne
 Kev Abazajian (Postdoc): Faculty, UC Irvine
 Pengjie Zhang (Postdoc): Faculty, Shanghai
 Kenji Kadota (Postdoc): Faculty, Nagoya
 Hee-Jong Seo (Postdoc): Faculty, Ohio
 Elise Jennings (Postdoc): Faculty, Argonne
 Chihway Chang (Postdoc): Postdoc, Chicago