Edward F. Schlafly
Curriculum Vitae July 2022

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ADDRESS: Space Telescope Science Institute
3700 San Martin Drive
Baltimore, MD 21218

PERSONAL: Born 17 October, 1984, US citizen

EDUCATION: Ph.D., Physics, Harvard University, 2012
Dissertation: *Dust in Large Optical Surveys*, supervised by Doug Finkbeiner
B.S., Physics, Stanford University, 2007

POSITIONS: June 2022 – present
Associate Astronomer, Space Telescope Science Institute

August 2019 – May 2022
Research Scientist, Lawrence Livermore National Laboratory

December 2018 – August 2019
Project Scientist, Lawrence Berkeley National Laboratory

December 2015 – November 2018
Hubble Fellow, Lawrence Berkeley National Laboratory

August 2012 – November 2015
Postdoctoral Researcher, Max Planck Institut für Astronomie
Supervisor: Hans-Walter Rix

August 2007 – July 2012
Ph.D. student, Physics, Harvard University
Advisor: Douglas P. Finkbeiner

RESEARCH INTERESTS:
- Large surveys, statistics, modeling
- Interstellar dust, interstellar medium
- Galactic structure, streams, dwarf galaxies

AWARDS and FELLOWSHIPS:

- 2015 Hubble Fellowship
- 2011 Harvard Graduate School of Arts and Sciences Merit Fellowship
- 2008 Harvard Physics Purcell Fellowship
- 2007 Jeff Willick Memorial Award (astronomy), Stanford Physics
- 2007 Sterling Award for Scholastic Achievement, Stanford University
- 2007 Departmental Honors, Stanford Physics

TELESCOPE TIME:

2017	DECam Plane Survey 2	25 nights	Blanco 4m	Co-PI
2017	California Molecular Cloud Survey	ancillary survey	Sloan 2.5m	Co-PI
2017	SDSS-V Interstellar Medium Survey	survey	Sloan	WG lead
2015	DECam Plane Survey	22 nights	Blanco 4m	Co-PI
2015	APOGEE Reddening Survey	ancillary survey	Sloan 2.5m	PI

RESEARCH ADVISED:

(graduate)

2020	Victor Baules (with M. D. Schneider)
2018	Jacqueline Beechert (with D. J. Schlegel)
2016—2020	Catherine Zucker (with D. P. Finkbeiner)
2012—2017	Albert Lee (with D. P. Finkbeiner)
2013—2015	Nina Hernitschek (with H. W. Rix)
2010—2015	Gregory Green (with D. P. Finkbeiner)

(undergraduate)

2022	Uzair Tahamid Siam
2015	Iraj Eshghi
2014	Melih Ozcelik (with H. W. Rix)

TEACHING EXPERIENCE:

2017	Guest lecturer, Berkeley Physics 209 (graduate E&M)
2017	Guest lecturer, St. Louis Priory High School Computer Science
2009	Harvard Undergraduate Physics 15a (mechanics) lab teaching assistant
1999—2003	Aim High St. Louis Calligraphy Teacher (5 week summer school)

COLLABORATIONS:

- DESI Survey Coordinator
- DESI Builder
- APOGEE Reddening Survey PI
- DECam Galactic Plane Survey Co-PI
- SDSS-V Dust Working Group Lead
- DECam Legacy Survey founding Co-I
- Paralensing Survey of Intermediate Mass Black Holes (PALS)
- SDSS-IV (Collaboration Council)
- Mapping Nearby Galaxies at APO (MaNGA)
- Pan-STARRS1

PROFESSIONAL SERVICE and OUTREACH:

- Hubble Space Telescope Time Allocation Committee (Cycle 25)
- Peer reviewer for ApJ, A&A, MNRAS, PASP
- SDSS-IV Collaboration Council
- San Francisco "Discovery Day" volunteer
- Guest lecturer, Castro Valley public schools

INVITED TALKS:

- "Commissioning the Dark Energy Spectroscopic Instrument." Cosmopalooza, 2022.
- "DESI System Throughput From Fiber Dither Analysis." APS, 2021.
- "DESI Positioning and Throughput Performance." DESI Winter Meeting, plenary, 2020.
- "X-raying the Interstellar Medium." University of Wisconsin-Madison, colloquium, 2020.
- "X-raying the Interstellar Medium." University of Florida, colloquium, 2019.
- "Realizing the Full Potential of Large Surveys." University of Toledo, colloquium, 2019.
- "Realizing the Full Potential of Large Surveys." University of Utah, colloquium, 2019.
- "Realizing the Full Potential of Large Surveys." Lawrence Livermore National Laboratory, 2019.
- "Realizing the Full Potential of Large Surveys." University of Pittsburgh, colloquium, 2019.
- "Realizing the Full Potential of Large Surveys." Penn State, colloquium, 2019.
- "The DECam Plane Survey." Lawrence Livermore National Laboratory, 2018.
- "DECaLS & DECaPS: Surveys in and out of the Galaxy." University of Chicago, 2018.
- "The Milky Way's Dust in 3D." Saint Louis Astronomical Society, public talk, 2018.
- "The Milky Way's Dust in 3D." Caltech, 2018.
- "The DECam Plane Survey." University of Washington, 2018.
- "The Milky Way's Dust in 3D." University of Pennsylvania, colloquium, 2018.
- "The Milky Way's Dust in 3D." Flatiron Institute, colloquium, 2018.
- "The DECam Plane Survey and the Extinction Curve." MPIA, 2017.
- "Dust in the Milky Way in 3D." Berkeley, colloquium, 2017.
- "Dust and the Extinction Curve in 3D." Institut d'astrophysique spatiale, 2017.
- "Mapping the Galaxy's Dust in 3D." University of Kentucky, 2016.
- "The Photometric Calibration of PS1." European Space Astronomy Center, 2016.
- "The Optical-Infrared Extinction Curve and its Variation." Stanford, 2016.
- "Dust Extinction and its Distribution in the Galaxy." Mayacamas Ranch, review, 2016.
- "The Optical-Infrared Extinction Curve and its Variation." STScI, colloquium, 2016.
- "The Optical-Infrared Extinction Curve and its Variation." University of Washington, colloquium, 2016.
- "Mapping the Galaxy's Dust in 3D: Results and Prospects" Hawaii, colloquium, 2016.

- "The Optical-Infrared Extinction Curve." Strasbourg, colloquium, 2015.
- "Mapping Dust in 3D with Photometry." *EWASS*, review, 2015.
- "3D dust mapping reveals that Orion forms part of a large ring of dust." Vienna, 2015.
- "The Milky Way's Dust in Three Dimensions." MPIA, colloquium, 2015.
- "Dust with Gaia." Ringberg, review, 2014.
- "Mapping the Galaxy's Dust in 3D with PS1." Strasbourg, colloquium, 2013.
- "PS1 and BigBOSS." Institut Henri Poincaré, 2012.
- "Photometric Calibration of the First 1.5 Years of the PS1 Survey." LBL, 2012.
- "Reconstructing the 3D Distribution of Dust and Stars with PS1." Leiden, 2011.

PUBLICATION SUMMARY: (from ADS, 2021-06)

- 10 first author papers with 4755 total citations
- 90 total papers with 14236 total citations
- h-index 48

FIRST AUTHOR PUBLICATIONS:

1. *The unWISE Catalog: Two Billion Infrared Sources from Five Years of WISE Imaging.* **E. F. Schlafly**, A. M. Meisner, G. M. Green, 2019, ApJ, 240, 30. **50 citations**
2. *The DECam Plane Survey: Optical photometry of two billion objects in the southern Galactic plane.* **E. F. Schlafly**, G. M. Green, D. Lang, et al., 2018, ApJ, 234, 39. **52 citations**
3. *Mapping the Extinction Curve in 3D: Structure on Kiloparsec Scales.* **E. F. Schlafly**, J. E. G. Peek, D. P. Finkbeiner, G. M. Green, 2017, ApJ, 838, 36. **23 citations**
4. *The Optical-Infrared Extinction Curve and its Variation in the Milky Way.* **E. F. Schlafly**, A. M. Meisner, A. M. Stutz, et al., 2016, ApJ, 821, 78. **116 citations**
5. *Three-dimensional Dust Mapping Reveals that Orion Forms Part of a Large Ring of Dust.* **E. F. Schlafly**, G. Green, D. P. Finkbeiner, et al., 2015, ApJ, 799, 116. **24 citations**
6. *A Map of Dust Reddening to 4.5 kpc from Pan-STARRS1.* **E. F. Schlafly**, G. Green, D. P. Finkbeiner, et al., 2014, ApJ, 789, 15. **78 citations**
7. *A Large Catalog of Accurate Distances to Molecular Clouds from PS1 Photometry.* **E. F. Schlafly**, G. Green, D. P. Finkbeiner, et al., 2014, ApJ, 786, 29. **141 citations**
8. *Photometric Calibration of the First 1.5 Years of the Pan-STARRS1 Survey.* **E. F. Schlafly**, D. P. Finkbeiner, M. Juric, *et al*, 2012, ApJ, 756, 158. **262 citations**
9. *Measuring Reddening with SDSS Stellar Spectra and Recalibrating SFD.* **E. F. Schlafly**,

D. P. Finkbeiner, 2011, ApJ, 737, 103. **3652 citations**

10. *The Blue Tip of the Stellar Locus: Measuring Reddening with the SDSS.* **E. F. Schlafly**, D. P. Finkbeiner, D. J. Schlegel, et al., 2010, ApJ, 725, 1175. **109 citations**

2nd OR 3rd AUTHOR PUBLICATIONS:

11. *Pan-STARRS Photometric and Astrometric Calibration.* E. A. Magnier, **E. F. Schlafly**, D. P. Finkbeiner, et al.. 2020, ApJS, 251, 6M. **134 citations**
12. *unWISE Tomography of Planck CMB Lensing.* A. Krolewski, S. Ferraro, **E. F. Schlafly**, M. White, 2020, JCAP, 05, 047.
13. *Transformations from Pan-STARRS1 and UBV Filters into ZTF Filters.* M. S. Medford, J. R. Lu, **E. F. Schlafly**, 2020, RNAAS, 4, 38.
14. *A compendium of distances to molecular clouds in the Star Formation Handbook.* C. Zucker, J. S. Speagle, **E. F. Schlafly**, et al., 2020, A&A, 633, 51. **37 citations**
15. *unWISE Coadds: The Five-year Data Set.* A. M. Meisner, D. Lang, **E. F. Schlafly**, D. J. Schlegel, 2019, PASP, 131, 4504.
16. *A 3D Dust Map Based on Gaia, Pan-STARRS 1, and 2MASS.* G. M. Green, E. F. Schlafly, et al., 2019, ApJ, 887, 93. **150 citations**
17. *A Large Catalog of Accurate Distances to Local Molecular Clouds: The Gaia DR2 Edition.* C. Zucker, J. S. Speagle, E. F. Schlafly, et al., ApJ, 879, 125. **71 citations**
18. *Mapping Distances Across the Perseus Molecular Cloud Using CO Observations, Stellar Photometry, and Gaia DR2 Parallax Measurements.* C. Zucker, **E. F. Schlafly**, et al., 2018, ApJ, 869, 83.
19. *Confirmation of a New Metal-poor Globular Cluster in the Galactic Bulge.* D. Minniti, **E. F. Schlafly**, et al., 2018, ApJ, 866, 12.
20. *Three-dimensional dust mapping in the Orion Complex, combining Gaia-TGAS, 2MASS, and WISE.* S. Rezaei Kh., C. A. L. Bailer-Jones, **E. F. Schlafly**, et al., 2018, A&A, 616, 44.
21. *Galactic reddening in 3D from stellar photometry - an improved map.* G. M. Green, **E. F. Schlafly**, et al., 2018, MNRAS, 478, 651. **245 citations**
22. *A Color-locus Method for Mapping R_V Using Ensembles of Stars.* A. Lee, G. M. Green, **E. F. Schlafly**, et al., 2018, ApJ, 854, 79.
23. *A Synoptic Map of Halo Substructures from the Pan-STARRS1 3π Survey.* E. J. Bernard, A. M. N. Ferguson, **E. F. Schlafly**, et al., 2016, MNRAS, 463, 1759. **77**

citations

24. *The stellar population structure of the Galactic disk.* J. Bovy, H.-W. Rix, **E. F. Schlafly**, et al., 2016, ApJ, 823, 30. **133 citations**

25. *Hypercalibration: A Pan-STARRS1-based Recalibration of the Sloan Digital Sky Survey Photometry.* D. P. Finkbeiner, **E. F. Schlafly**, D. J. Schlegel, et al., 2016, ApJ, 823, 30. **67 citations**

26. *Finding, Characterizing, and Classifying Variable Sources in Multi-epoch Sky Surveys: QSOs and RR Lyrae in PS1 3π data.* N. Hernitschek, **E. F. Schlafly**, B. Sesar, et al., 2016, 817, 73. **56 citations**

27. *A Three-dimensional Map of Milky Way Dust.* G. M. Green, **E. F. Schlafly**, D. P. Finkbeiner, et al., 2015, ApJ, 810, 25. **349 citations**

28. *Serendipitous discovery of a thin stellar stream near the Galactic bulge in the Pan-STARRS1 3pi Survey.* E. J. Bernard, A. M. N. Ferguson, **E. F. Schlafly**, et al., 2014, MNRAS, 443, 84. **43 citations**

29. *Galactic globular and open cluster fiducial sequences in the Pan-STARRS1 photometric system.* E. J. Bernard, A. M. N. Ferguson, **E. F. Schlafly**, et al., 2014, MNRAS, 442, 2999. **22 citations**

30. *The Complex Structure of Stars in the Outer Galactic Disk as Revealed by Pan-STARRS1.* C. T. Slater, E. Bell, **E. F. Schlafly**, et al., 2014, ApJ, 791, 9. **53 citations**

31. *Measuring Distances and Reddenings for a Billion Stars: Toward a 3D Dust Map from Pan-STARRS 1.* G. Green, **E. F. Schlafly**, D. P. Finkbeiner, et al., 2014, ApJ, 783, 114. **78 citations**

32. *Perseus I: A Distant Satellite Dwarf Galaxy of Andromeda.* N. F. Martin, **E. F. Schlafly**, C. T. Slater, et al., 2013, ApJL, 779, 10. **35 citations**

33. *Lacerta I and Cassiopeia III. Two Luminous and Distant Andromeda Satellite Dwarf Galaxies Found in the 3pi Pan-STARRS1 Survey.* N. F. Martin, C. T. Slater, **E. F. Schlafly**, et al., 2013, ApJ, 772, 15. **65 citations**

34. *The Pan-STARRS 1 Photometric Reference Ladder, Release 12.01.* E. A. Magnier, **E. F. Schlafly**, D. P. Finkbeiner, et al., 2013, ApJS, 205, 20. **226 citations**

35. *A Pan-STARRS1 View of the Bifurcated Sagittarius Stream.* C. T. Slater, E. F. Bell, **E. F. Schlafly**, et al., 2013, ApJ, 762, 6. **35 citations**

OTHER PUBLICATIONS:

36. *Data-driven Stellar Models.* G. M. Green et al. [9 couathors including **E. F. Schlafly**], 2020, AJ, 160, 61.

37. *Dynamic Observing and Tiling Strategies for the DESI Legacy Surveys.* K. J. Burleigh et al. [24 couathors including **E. F. Schlafly**], 2020, AJ, 160, 61.

38. *The 16th Data Release of the Sloan Digital Sky Surveys: First Release from the APOGEE-2 Southern Survey and Full Release of eBOSS Spectra.* R. Ahumda et al., [313 coauthors including **E. F. Schlafly**], 2020, ApJS, 249, 3.

39. *Gravitational Microlensing Event Statistics for the Zwicky Transient Facility.* M. S. Medford, [6 coauthors including **E. F. Schlafly**], 2020, ApJ, 897, 144.

40. *Finding Strong Gravitational Lenses in the DESI DECam Legacy Survey.* X. Huang et al., [20 coauthors including **E. F. Schlafly**], 2020, ApJ, 894, 78.

41. *Expanding the Y Dwarf Census with Spitzer Follow-up of the Coldest CatWISE Solar Neighborhood Discoveries.* A. M. Meisner et al., [13 coauthors including **E. F. Schlafly**], 2020, ApJ, 889, 74.

42. *A Galactic-scale gas wave in the solar neighbourhood.* J. Alves et al., [8 coauthors including **E. F. Schlafly**], 2020, Nature, 578, 237.

43. *Discovery of a Disrupting Open Cluster Far into the Milky Way Halo: A Recent Star Formation Event in the Leading Arm of the Magellanic Stream?*, A. M. Price-Whelan et al., [6 coauthors including **E. F. Schlafly**], 2019, ApJ, 887, 19.

44. *Deep ugrizY imaging and DEEP2/3 spectroscopy: a photometric redshift testbed for LSST and public release of data from the DEEP3 Galaxy Redshift Survey*, R. Zhou et al., [21 coauthors including **E. F. Schlafly**], 2019, MNRAS, 488, 4565.

45. *SDSS-IV MaStar: A Large and Comprehensive Empirical Stellar Spectral Library. First Release*, R. Yan et al. [47 coauthors including **E. F. Schlafly**], 2019, ApJ, 883, 175.

46. *Overview of the DESI Legacy Imaging Surveys*, A. Dey et al. [160 coauthors including **E. F. Schlafly**], 2019, AJ, 159, 168.

47. *The Fifteenth Data Release of the Sloan Digital Sky Surveys: First Release of MaNGA-derived Quantities, Data Visualization Tools, and Stellar Library*, D. S. Aguado et al. [233 coauthors including **E. F. Schlafly**], 2019, ApJS, 240, 23.

48. *Charge Diffusion Variations in Pan-STARRS1 CCDs.* E. A. Magnier et al. [12 coauthors including **E. F. Schlafly**], 2018, PASP, 130, 998, 065002.

49. *The APOGEE-2 Survey of the Orion Star-forming Complex. I. Target Selection and Validation with Early Observations.* J. Cottle et al. [28 coauthors including **E. F.**

Schlafly], 2018, ApJS, 236, 27.

50. *The Complete Light-curve Sample of Spectroscopically Confirmed SNe Ia from Pan-STARRS1 and Cosmological Constraints from the Combined Pantheon Sample.* D. M. Scolnic et al. [39 coauthors including **E. F. Schlafly**], 2018, ApJ, 859, 101.

51. *The Fourteenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the Extended Baryon Oscillation Spectroscopic Survey and from the Second Phase of the Apache Point Observatory Galactic Evolution Experiment.* B. Abolfathi et al. [347 coauthors including **E. F. Schlafly**], 2018, ApJS, 235, 42.

52. *UKIRT-2017-BLG-001Lb: A Giant Planet Detected through the Dust.* Y. Shvartzvald et al. [10 coauthors including **E. F. Schlafly**], 2018, ApJ, 857, 8.

53. *The Optical/Near-infrared Extinction Law in Highly Reddened Regions.* M. Hosek et al. [8 coauthors including **E. F. Schlafly**], 2018, ApJ, 855, 13.

54. *The 13th Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-IV Survey Mapping Nearby Galaxies at Apache Point Observatory.* F. Albareti et al. [343 coauthors including **E. F. Schlafly**], 2017, ApJS, 233, 25.

55. *Physical Properties of 15 Quasars at $z \geq 6.5$.* C. Mazzucchelli et al. [23 coauthors including **E. F. Schlafly**], 2017, ApJ, 849, 91.

56. *Sloan Digital Sky Survey IV: Mapping the Milky Way, Nearby Galaxies, and the Distant Universe.* M. Blanton et al. [362 coauthors including **E. F. Schlafly**], 2017, AJ, 154, 28.

57. *Machine-learned Identification of RR Lyrae Stars from Sparse, Multi-band Data: The PS1 Sample.* B. Sesar et al. [18 coauthors including **E. F. Schlafly**], 2017, AJ, 153, 204.

58. *Searching for Planet Nine with Coadded WISE and NEOWISE-Reactivation Images.* A. M. Meisner et al. [6 coauthors including **E. F. Schlafly**], 2017, AJ, 153, 65.

59. *The Pan-STARRS1 Distant $z > 5.6$ Quasar Survey: More than 100 Quasars within the First Gyr of the Universe.* E. Bañados et al. [35 coauthors including **E. F. Schlafly**], 2016, ApJS, 227, 11.

60. *Mapping the Monoceros Ring in 3D with Pan-STARRS1.* E. Morganson et al. [19 coauthors including **E. F. Schlafly**], 2016, ApJ, 825, 140.

61. *The Time-Domain Spectroscopic Survey: Understanding the Optically Variable Sky with SEQUELS in SDSS-III.* J. J. Ruan *et al.* [30 coauthors including **E. F. Schlafly**], 2016, ApJ, 825, 137.

62. *Low Surface Brightness Imaging of the Magellanic System: Imprints of Tidal Interac-*

tions between the Clouds in the Stellar Periphery. G. Besla et al. [8 coauthors including **E. F. Schlafly**], 2016, ApJ, 825, 20.

63. *On Galactic Density Modeling in the Presence of Dust Extinction.* J. Bovy et al. [5 coauthors including **E. F. Schlafly**], 2016, ApJ, 818, 130.

64. *Supercal: Cross-calibration of Multiple Photometric Systems to Improve Cosmological Measurements with Type Ia Supernovae.* D. Scolnic et al. [19 coauthors including **E. F. Schlafly**], 2015, ApJ, 815, 117.

65. *Sagittarius II, Draco II and Laevens 3: Three New Milky Way Satellites Discovered in the Pan-STARRS 1 3π Survey.* B. P. M. Laevens et al. [21 coauthors including **E. F. Schlafly**], 2015, ApJ, 813, 44.

66. *The Nature and Orbit of the Ophiuchus Stream.* B. Sesar et al. [22 coauthors including **E. F. Schlafly**], 2015, ApJ, 809, 59.

67. *The Time Domain Spectroscopic Survey: Variable Selection and Anticipated Results.* E. Morganson et al. [39 coauthors including **E. F. Schlafly**], 2015, ApJ, 806, 244.

68. *Constraining the Radio-loud Fraction of Quasars at* $z > 5.5$. E. Bañados et al. [20 coauthors including **E. F. Schlafly**], 2015, ApJ, 804, 118.

69. *A nearby M star with Three Transiting Super-Earths Discovered by K2.* I. Crossfield et al. [26 coauthors including **E. F. Schlafly**], 2015, ApJ, 804, 10.

70. *A New Faint Milky Way Satellite Discovered in the Pan-STARRS1 3π Survey.* B. P. M. Laevens et al. [23 coauthors including **E. F. Schlafly**], 2015, ApJ, 802, 18.

71. *The Identification of Z-dropouts in Pan-STARRS1: Three Quasars at* $6.5 < z < 6.7$. B. P. Venemans et al. [32 coauthors including **E. F. Schlafly**], 2015, ApJ, 801, 11.

72. *Systematic Uncertainties Associated with the Cosmological Analysis of the First Pan-STARRS1 Type Ia Supernova Sample.* D. Scolnic et al. [48 coauthors including **E. F. Schlafly**], 2014, ApJ, 795, 45.

73. *Cosmological Constraints from Measurements of Type Ia Supernovae Discovered during the First 1.5 yr of the Pan-STARRS1 Survey.* A. Rest et al. [48 coauthors including **E. F. Schlafly**], 2014, ApJ, 795, 44.

74. *A New Distant Milky Way Globular Cluster in the Pan-STARRS1 3pi Survey.* B. P. M. Laevens et al. [22 coauthors including **E. F. Schlafly**], 2014, ApJ, 786, L3.

75. *Measuring Quasar Variability with Pan-STARRS1 and SDSS.* E. Morganson et al. [13 coauthors including **E. F. Schlafly**], 2014, ApJ, 784, 92.

76. *Towards a complete stellar mass function of the Hyades. I. Pan-STARRS1 optical*

observations of the low-mass stellar content. B. Goldman et al. [17 coauthors including **E. F. Schlafly**], 2013, A&A, 559, 43.

77. *Clustering of Sloan Digital Sky Survey III Photometric Luminous Galaxies: The Measurement, Systematics, and Cosmological Implications.* S. Ho et al. [39 coauthors including **E. F. Schlafly**], 2012, ApJ, 761, 14.

78. *The Milky Way Tomography with Sloan Digital Sky Survey. IV. Dissecting Dust.* M. Berry et al. [30 coauthors including **E. F. Schlafly**], 2012, ApJ, 757, 166.

79. *Ameliorating systematic uncertainties in the angular clustering of galaxies: a study using the SDSS-III.* A. J. Ross, et al. [31 coauthors including **E. F. Schlafly**], 2011, MNRAS, 417, 1350.

80. *CGRaBS: An All-Sky Survey of Blazar Candidates.* S. E. Healey et al. [10 coauthors including **E. F. Schlafly**], 2008, ApJS, 175, 97.