

Curriculum Vitae

JEFFREY NEWMAN

Department of Physics and Astronomy, University of Pittsburgh
3941 O'Hara St.
Pittsburgh, PA 15260

EDUCATION:

Ph.D. , Astrophysics, U.C. Berkeley	2000
Dissertation: <i>Observational Cosmology from $z \sim 0.001$ to $z \sim 1$</i>	
M.A. , Astronomy, U.C. Berkeley	1996
B.S. , Physics & Astronomy, University of Maryland at College Park	1994
B.S. , Mathematics, University of Maryland at College Park	1994
B.A. , Latin, University of Maryland at College Park	1994

POSITIONS:

Professor	Sep., 2016 – present
University of Pittsburgh, Department of Physics and Astronomy	
Associate Professor	Sep., 2012 – Aug., 2016
University of Pittsburgh, Department of Physics and Astronomy	
Deputy Spokesperson , LSST Dark Energy Science Collaboration	
February, 2014 – June, 2017	
Analysis Coordinator , LSST Dark Energy Science Collaboration	
June, 2012 – Jan. 2014	
Assistant Professor	Sep., 2007 – Aug., 2012
University of Pittsburgh, Department of Physics and Astronomy	
Assistant Researcher	Oct., 2006 – Aug., 2007
University of California at Berkeley	
Hubble Fellow	Oct., 2003 – Sep., 2006
Lawrence Berkeley National Laboratory	
Supervisor: Saul Perlmutter	
Assistant Researcher	July, 2002 - Sep., 2003
University of California, Berkeley	
Postdoctoral Researcher	June, 2000 - June, 2002
University of California, Berkeley; Supervisor: Marc Davis	
Graduate Student Researcher	Nov., 1996 - May, 2000
University of California, Berkeley	
Advisor: Marc Davis, Departments of Physics and Astronomy	
Graduate Student Researcher	May, 1995 - Nov., 1996
University of California, Berkeley	
Advisor: Alex Filippenko, Department of Astronomy	

POSITIONS (continued):

Graduate Student Instructor

Sep., 1994 - May, 1995

University of California, Berkeley, Department of Astronomy

STUDENTS SUPERVISED AT U. PITTSBURGH:

Catherine Fielder, Ph. D. c. 2021: Galaxy Evolution
Rongpu Zhu, Ph. D. c. 2019: DESI Target Selection and Galaxy Clustering
Dritan Kodra, Ph. D. c. 2018: Photometric Redshift Methods
Abhishek Prakash, Ph. D. 2017: eBOSS and DESI Target Selection
Currently Postdoctoral Researcher at California Institute of Technology
Timothy Licquia, Ph. D. 2016: DESI Target Selection and Galaxy Evolution
Currently Advanced Analytics Data Scientist at Dow Chemical
Dan Matthews, Ph. D. 2014: Photometric Redshift Calibration
Currently Regulatory Reporting Data Analyst at Confluence Technologies, Inc.
Olivia Telford, B.S. 2013: Analysis of DEEP3 and CANDELS data
Currently Ph.D. student at U. Washington; received NSF graduate fellowship
Matthew Brinson, B.S. 2012: Analysis of DEEP3 data
Chelsea Vincent, B.S. 2012: Improving reductions of problem DEEP2 objects
Advait Salgarkar, M.S. 2011: Photometric Redshift Measurement
Dara Krute, CMU B.S. 2011: Multiwavelength catalog matching methods (NSF REU)
Adam Walker, CMU B.S. 2010: DEEP2 flux calibration (NSF REU)
Jennifer Sykes, B.S. 2009: Google Sky integration of EGS data

OTHER GRADUATE STUDENT PROJECTS SUPERVISED AT U. PITTSBURGH:

Fernando Zago and Hongyu Zhu, Photometric Redshifts for Luminous Red Galaxies
Sumit Sarbadhicary and Kara Ponder: Investigating Fast Radio Bursts
with machine learning methods
Suchetana Chatterjee, Ph. D. 2009: Extended X-ray emission around AGN

STUDENTS CO-SUPERVISED PREVIOUSLY:

Julia Comerford, Ph. D. 2009: Dual Active Galactic Nuclei
Currently Assistant Professor at U.Colorado – Boulder
Roger Griffith, B.S. 2008: Galaxy morphology measurements in *HST* imaging;
Carmen Anderson, B.S. 2007: Double-peaked AGN in DEEP2
Michael Cooper, Ph.D. 2007: DEEP2 pipeline development; Galaxy environments in
DEEP2; DEEP2 galaxy kinematics; Spitzer Fellowship 2007-2010;
Currently Associate Professor at U.C. Irvine
Brian Gerke, Ph.D. 2007: Searches for galaxy groups and clusters in DEEP2;
KIPAC fellowship 2007-10; Currently staff at Lawrence Berkeley Laboratory
National Laboratory
Renbin Yan, Ph.D. 2007: K+A galaxies in DEEP2; Properties of red galaxies
in SDSS; currently Associate Professor at U. Kentucky

STUDENTS CO-SUPERVISED PREVIOUSLY (continued):

Rachel Strickler, B.S. 2005: DEEP2 1d power spectrum
Charlie Conroy, B.S. 2005: Mass measurements with DEEP2 satellite galaxies;
DEEP2 void statistics; currently Professor at Harvard U.
Alison Coil, Ph.D. 2004: DEEP2 photometry & correlation function measurements;
Received Hubble Fellowship and Spitzer Fellowship, now
Professor at the University of California - San Diego
Bryan Méndez, Ph.D. 2002: TRGB measurements of local flows;
staff member at the Berkeley Space Sciences Laboratory (focused on E/PO)
John Moustakas, B.S. 2000: Tip of the Red Giant Branch (TRGB) distance
estimation; currently Associate Professor at Siena College

RESEARCH INTERESTS:

The large-scale structure of the Universe
Relationships between galaxy properties and environment/LSS
Surveys and multiwavelength studies of galaxies
Measurement of fundamental cosmological and physical parameters
Applications of statistical and machine learning techniques to astronomy
Tools for automated data reduction and analysis

SUCCESSFUL GRANT AND PROPOSAL ACTIVITIES:

PI of NASA Astrophysics Data Analysis Program grant,
*A Multiwavelength View of the Milky Way from its Extragalactic
Analogues*, \$505k (2019-2021)
Co-PI of U.S. Department of Energy HEP grant, *Particle Physics
and Cosmology at the University of Pittsburgh*, \$5.1M (2018-2021)
(Newman share: \$185k)
PI, SDSS-IV/MaNGA Ancillary Program, *Structural Analogs of the Milky
Way*, 2017-2020
Co-PI of U.S. Department of Energy HEP grant, *Particle Physics
and Cosmology at the University of Pittsburgh*, \$4.6M (2015-2018)
(Newman share: \$480k)
PI of \$88k SLAC subaward, *LSST DESC – Deputy Spokesperson*,
2014-2017
PI, SDSS-IV/MaNGA Ancillary Program, *Exploring Milky Way Analogs
with MaNGA*, 2014-2020
Co-I and co-author, *SEQUELS: the Sloan Extended Quasar, ELG, and LRG Survey*
SDSS-III ancillary proposal (obtained $> 30k$ LRG spectra), 2013
Co-I and primary author, *Exploring $z \lesssim 0.6$ LRGs from SDSS and WISE* SDSS-III
ancillary proposal (obtained $> 10k$ spectra), 2012
Co-I and co-author, *e-BOSS (extended BOSS): The novel Sloan legacy
cosmological survey* After Sloan 3 proposal, 2011
PI, U.S. Department of Energy Early Career Research Program, 2010

Proposal: *Overcoming Photometric Redshift Systematics in Dark Energy Experiments*, \$750k (2010 - 2015)

SUCCESSFUL GRANT AND PROPOSAL ACTIVITIES (continued):

- Co-I and Pitt PI, 902-orbit/ \sim \$8M *Hubble Space Telescope* Multi-Cycle Treasury proposal: CANDELS (the Cosmic Assembly Near-infrared Deep Extragalactic Legacy Survey), 2010 U. Pittsburgh share: \$124k, 2010-2016
- Co-I and co-author, NSF Cyber-Enabled Discovery and Innovation grant, *CDI-Type II: Understanding the Universe through Scalable Navigation of a Galaxy of Annotations* (PI: A. Labrinidis); \$1.6M total, Newman share \$317k, 2010-2016
- PI of NSF REU supplement proposal, \$15,000 (2009-10)
- Co-author and Pitt PI on NSF \$2.2M/5 year proposal: *Collaborative Research: The DEEP3 Survey: Three Fundamental Tests of Galaxy Evolution* (2008-2015; \$285k U. Pitt. total)
- Co-author and Pitt PI on DOE proposal: *Optimizing New Dark Energy Experiments* (2007-; supplement successfully applied for in 2009; \sim \$100k U. Pitt. total)
- Co-I and co-author of Keck Large Multi-Annual Program Proposal (30 nights total): *The DEEP3 Survey of the Distant Universe* (2007)
- Co-author of and Collaborator on NSF \$1.8M/3 year AST proposal: *The DEEP Survey–Emergence of the Modern Universe* (2005)
- PI of Subaru proposal, *Y-band Imaging in the Extended Groth Strip*, 2010
- Co-I and principal author of 5 successful Keck Observatory proposals and Co-I and co-author of ~ 10 more, totalling > 120 nights (1998-2006)
- Co-I and principal author of 126-orbit/ \sim \$0.8M *Hubble Space Telescope/Advanced Camera for Surveys* proposal: *The Evolution and Assembly of Galactic Disks: Integrated studies of mass, stars and gas in the Extended Groth Strip* (2004)
- Co-I and co-author of \$80k *Hubble Space Telescope* Archival proposal: *Galaxy Environments and Evolution in the GOODS-N Field* (2006)
- Co-I and co-author of \$0.5M NASA Long-Term Space Astrophysics proposal: *Star Formation and Galaxy Dynamics at $z \sim 1$* (2003)
- Co-I and co-author of Keck Large Multi-Annual Program Proposal (80 nights total): *The DEEP2 Survey of the Distant Universe* (2002)
- Co-I and co-author of \$2.2M/5 year NSF AST proposal: *The DEEP Survey of the Distant Universe* (2000)

TEACHING ACTIVITIES:

Astronomy 88 (Stonehenge to Hubble), Fall 2017
Astronomy 89 (Stars, Galaxies, and the Cosmos), Spring 2008, 2009, 2011 & 2013, Fall 2018
Astronomy 113 (Introduction to Astrophysics), Fall 2009, Fall 2011
Astronomy 1121 (Galaxies and Cosmology), Spring 2010, 2012, 2014, 2018
Astronomy 3580 (Galactic and Extragalactic Astronomy) Spring 2014, 2018
Astronomy 3705 (Techniques of Observational Astronomy), Fall 2008, 2010, 2012, 2014

DEPARTMENTAL AND UNIVERSITY SERVICE:

Search Committee for Senior Vice Chancellor for Research, U. Pittsburgh, 2017
Member, Dietrich School of Arts and Sciences Council, 2014-17
U. Pittsburgh Institutional Representative to the Board of the LSST Corporation, 2007-;
member, LSST Budget and Audit Committees
U. Pittsburgh Representative to the DESI Institutional Board, 2013–
U. Pittsburgh Representative to the AURA Board, 2013–2018
Organized successful U. Pittsburgh application to join AURA (the Association
of Universities for Research in Astronomy), 2012
Chair, Machine Learning in Astrophysics and Particle Physics search, 2018 – 19
Led department application to be an APS Bridge Program partnership site, 2017
Chair, Diversity committee, 2017 –
Member, Colloquium committee, 2017 –
Chair, Undergraduate Program Assessment committee, 2014–2017
Member, Strategic Planning committee, 2013 –
Coordinated U. Pittsburgh membership in SDSS-IV survey, 2013
Member, Undergraduate Program Assessment committee, 2008 – 17
Member, Undergraduate Curriculum committee, 2007 –
(led development of revised curricula for degree programs in Astronomy
and Physics & Astronomy, approved in 2012)
Member, Allegheny Observatory committee, 2008 –
Member, Graduate Computing committee, 2007 – 2010
Thesis committee member for Simone Aiola, Elizabeth Blair, Jerod Caligiuri,
Colin DeGraf (CMU), Beatriz Etchegaray (CMU), Andrew Hearin,
Chien-Hao Lin (CMU), Christine Mazzola, Daniel Perrefort, Kara Ponder, Jlio Ramos
Caineta (Geology), Joseph Richards (CMU), Kevin Sapp, Sumit Sarbadhicary,
Gen Sardane, Sukhdeep Singh (CMU), Shailendra Vikas, Antonio Villarreal,
Mei-Yu Wang, Anja Weyant, Fernando Zago, and Hongyu Zhou (CMU)
Thesis committee chair for Catherine Fielder, Dritan Kodra, Timothy Licquia, Daniel
Matthews, Abhishek Prakash, and Rongpu Zhou
Created department entry on the AIP Female-Friendly Physics Department page, 2011
Assisted with graduate student advising, 2010-2011

Coordinated DOE supplemental infrastructure funding request, 2009

DEPARTMENTAL AND UNIVERSITY SERVICE (continued):

Member of Astronomy faculty search committees, 2007-2008, 2008-2009,
2009-2010, 2010-2011, 2017-18, 2018-19

PROFESSIONAL ACTIVITIES:

Co-convener, LSST Dark Energy Science Collaboration (DESC) Follow-up Task Force, 2018 –
SOC, *AstroData2020s: Science Opportunities with Astrophysics Archives of the
Next Decade Workshop* (2018)
SOC, *The Universe by the Light of CANDELS: Past and Future Meeting* (2018)
SOC, *WFIRST/LSST Deep Fields Workshop* (2018)
Member, LSST Dark Energy Science Collaboration (DESC) Collaboration Council, 2017 –
Time Allocation Committee, Hubble Space Telescope, 2017
Study Organizing Committee and chapter lead author, *Maximizing Science in the Era
of LSST: A Community-based Study of Needed US OIR Capabilities*, 2015–2016
SOC, *Future Cosmic Surveys workshop* (2016)
SOC, Southern Spectroscopic Survey Instrument Workshop (2016)
SOC and LOC, *Photometric Redshifts for LSST Workshop* (2016)
SOC, *Statistical Challenges in Modern Astronomy VI Conference* (2016)
Member, LSST Dark Energy Science Collaboration (DESC) Operations Committee, 2016 –
Panel member, DOE-HEP mini-reviews of the Dark Energy Survey, 2016 & 2017
Member, *WFIRST* satellite WAIFS Science Investigation Team (PI: Saul Perlmutter), 2015 –
Chair, LSST Dark Energy Science Collaboration (DESC) Operations Committee, 2015 – 16
Architect, SDSS-IV/eBOSS survey, 2015- (provides right to authorship on all papers)
Deputy Spokesperson, LSST Dark Energy Science Collaboration, 2014–2017
(This is the #2 position in the collaboration, which currently has ~ 700 members)
Lecturer, Corfu Doctoral School on Dark Energy and Galaxy Redshift Surveys, 2014
Led work on two white papers to the National Academy of Sciences panel on
A Strategy to Optimize the U.S. Optical and Infrared System in the Era of LSST, 2014
Analysis Coordinator, LSST Dark Energy Science Collaboration, 2012-2014
Co-Chair, DESI Target Selection Working Group, 2014-2015
Convener, Photometric Redshift Working Group, LSST DESC, 2012-2015
Science Team member, Maunakea Spectroscopic Explorer telescope, 2014 –
Proposal reviewer, NSF Astronomy and Astrophysics Grant Program, 2012
Proposal reviewer, NASA Postdoctoral Fellowship Program, 2012–
Presenter, DESI U.S. Department of Energy Critical Decision 1 (CD1) review,
September 2014
Presenter, SDSS-IV/eBOSS review, December 2013
Member, BigBOSS/DES joint working group, 2011-2012
Presenter, BigBOSS U.S. Department of Energy Critical Decision 0 (CD0) review,
December 2011

Presenter, LSST U.S. DOE CD1 review, November 2011
BigBOSS/Dark Energy Survey Joint Working Group, 2011-
PROFESSIONAL ACTIVITIES (continued):

Publications Coordinator, CANDELS, 2011-
Chair, LSST Photometric Redshifts Working Group, 2010 -
Member and U. Pittsburgh institutional contact, BigBOSS Collaboration;
co-author of BigBOSS spectrograph proposal, 2010 -
AEGIS Executive Committee, 2008 – present
Co-I, CANDELS (Cosmic Assembly Deep Extragalactic Legacy Survey) team
Senior Core Member, DEEP2 Collaboration (part of AEGIS)
Member, SNAP Telescope Requirements Review Board, 2007
Member, Space Telescope Science Institute MAST Users' Group, 2005–2008
LOC and SOC member, Marc Davis *Fest* (Jan. 2008)
Other LSST activities: Co-author of white paper: “A Plan for Photo-z Calibrations”;
active member of the Galaxies, Large-Scale Structure, AGN,
and Weak Lensing collaborations; participated in LSST presentation to
the Decadal Survey; coauthor of two Deep Drilling Field white papers
Major contributor to the LSST Science Book; helped organize Galaxies
collaboration efforts
Referee, *Astrophys. Journal*, *Ap.J. Letters*, *Monthly Notices of the Royal
Astronomical Society*

OUTREACH ACTIVITIES:

Manned a career booth about physics and astronomy at Odyssey of the Mind meet, 2018
Taught an Osher Lifelong Learning Institute class on *Surveying the Universe: The
Big Data Revolution in Astronomy*, 2017
Talk on *The Color of the Milky Way* at the U. Pittsburgh *Science 2016* showcase, 2016
Hosted a booth at Allegheny Observatory for the White House Astronomy
Night, 2016
Lectured on *Photometric Redshifts* at the LSST Dark Energy School, 2016
Wrote an Explain it in 60 Seconds article for *Symmetry* magazine, 2013
(<http://www.symmetrymagazine.org/article/december-2013/baryonic-acoustic-oscillations>).
Interviewed by WTAE TV and The X 105.9 radio about asteroid near-miss, 2013
Radio interview on solar coronal mass ejection, 2012
Public Talk, Allegheny Observatory, 2012
American Astronomical Society press conference on *The Nearest and Dearest Spiral
Galaxies* and accompanying press release on the color of the Milky Way,
Jan. 2012. This work was highlighted by the NSF, *Wired*, and the BBC, and
was the subject of many articles both domestically and internationally.
Radio interviews on the (ever-)changing zodiac and
Space Shuttle decommissioning, 2011
Public Talk, Amateur Astronomers Association of Pittsburgh, 2010

Talk for Allderdice High School students, 2010

Public Talk, Carnegie Science Center, 2009

OUTREACH ACTIVITIES (continued):

Public Talk, Cline Observatory (Greensboro, NC), 2009

Public Talk, Allegheny Observatory, 2008

Implementation and dissemination of AEGIS data in Google Sky

Development of tool allowing overlay of arbitrary catalogs on Google Sky, 2008-2009

PROFESSIONAL DEVELOPMENT:

Center for Astronomy Education 2-day Workshop, April 2008

American Physical Society New Faculty Workshop, June 2008

PROFESSIONAL SOCIETIES:

American Astronomical Society

American Physics Society

INVITED TALKS, COLLOQUIA AND SEMINAR PRESENTATIONS:

Invited talk, *Snowpac 2018: Big Questions, Big Surveys, Big Data: Astronomy and Cosmology in the 2020s*, Snowbird, 2018

Invited talk, *NOAO Community Needs for Science in the 2020s: Decadal Survey Community Planning Workshop*, Tucson, 2018

Invited talk, *Exploiting Extra-galactic Synergies between WFIRST and Future Facilities* workshop, Caltech, 2018

Invited talk, *WFIRST-Subaru Synergistic Observations Workshop*, Tokyo, 2017

Session organizer, invited talk: *Cosmic Visions Workshop: Dark Energy*, Lawrence Berkeley National Lab, 2017

Invited Talk, *Statistical Challenges in Modern Astronomy VI conference*, Pittsburgh, 2016

Invited Talk, Astro-1 workshop (for a potential new satellite; remote talk), 2016

Invited Talk, Southern Spectroscopic Survey Instrument workshop, Argonne Lab, 2016

Invited Talk, WFIRST/LSST workshop, Caltech, 2016

2 invited talks, *Future Cosmic Surveys* workshop, U. Chicago, 2016

Invited seminar, Ohio University, 2016

Invited Talk, *Coordinating Panel for Advanced Detectors Instrument Frontier* workshop, Caltech, 2016

Colloquium, University of Maryland at College Park Dept. of Astronomy, 2016

Invited talk, *Cross-correlation Spectacular with LSST: Exploring Synergies Between LSST and External Datasets to Discover Fundamental Physics* workshop, Brookhaven, 2016

Invited talk, *Maximizing Science in the Era of LSST: A Community-based Study of Needed US OIR Capabilities* workshop, Tucson, AZ, 2016

Invited talk, *Cosmology Using Low Resolution Spectroscopy in the 2020s* workshop at U. Chicago, 2016

Colloquium, University of Pittsburgh, 2015

Invited Talk, DOE Cosmic Visions workshop, Brookhaven National Laboratory, 2015
 Seminar, Kavli Institute for the Physics and Mathematics of the Universe, Tokyo, 2015
 INVITED TALKS, COLLOQUIA AND SEMINAR PRESENTATIONS (continued):
 Seminar, Princeton University Department of Astrophysical Sciences, 2015
 Seminar, Ohio State University Center of Cosmology and Astro Particle Physics, 2015
 Invited talk, *Multi-Object Spectroscopy in the Next Decade:*
Big Questions, Large Surveys and Wide Fields conference, Canary Islands, 2015
 Seminar, Observatorio Nacional (Rio de Janeiro, Brazil), 2014
 Invited talk, LSST/WFIRST Workshop, University of Pennsylvania, 2014
 Colloquium, University of Massachusetts (Amherst), 2014
 Invited Talk, Joint DES/LSST Workshop, Fermilab, 2014
 Invited Talk, Giant Magellan Telescope Workshop, College Station, TX, 2014
 Invited Talk, Giant Magellan Telescope Town Hall, AAS Winter Meeting, 2014
 Invited talk, Snowmass on the Mississippi conference, Minneapolis, 2013
 Seminar, Lawrence Berkeley National Laboratory, Berkeley, 2013
 Seminar, Stanford University, Palo Alto, 2013
 Invited talk, American Physical Society April meeting, Denver, 2013
 Invited talk, BigBOSS Science Workshop, LBNL, 2012
 Colloquium, U. Pittsburgh Department of Computer Science, 2012
 Press conference presentation, AAS Winter Meeting, Austin, TX 2012
 Colloquium, U. Pittsburgh Department of Physics and Astronomy, 2012
 Colloquium, University of Texas at Austin Department of Astronomy, 2011
 Invited Talk, *Fundamental Physics and Large Scale Structure*, Perimeter Institute, 2010
 Invited Talk, BigBOSS Workshop, Berkeley, 2009
 Invited Talk, *Deep/Wide/Fast* Workshop, Aspen, 2009
 Colloquium, Pennsylvania State University, 2009
 Colloquium, University of Pennsylvania, 2009
 Particle Astrophysics Seminar, University of Michigan-Ann Arbor, 2009
 Seminar, University of North Carolina at Chapel Hill, 2009
 Colloquium, Ohio State University, 2008
 Invited Talk, *Surveys and Simulations of Large-Scale Structure:*
A Celebration of Marc Davis'60th Birthday, 2008
 Invited Talk, *Great Lakes Cosmology Workshop*, 2008
 Invited Talk, *PHAT (Photo-z Analysis Team) Workshop*, 2008
 Seminar, University College, London, 2008
 Invited Talk, *Spectroscopy in Cosmology and Galaxy Evolution 2005-2015*, Granada, Spain, 2007
 Colloquium, U. Pittsburgh, Department of Physics and Astronomy, 2007
 Colloquium, Yale University, Department of Physics, 2007
 Colloquium, Princeton University, Department of Physics, 2007
 Seminar, Space Telescope Science Institute, 2007

Seminar, Fermi National Accelerator Laboratory, 2007

Colloquium, Vanderbilt University, Department of Physics and Astronomy, 2007

INVITED TALKS, COLLOQUIA AND SEMINAR PRESENTATIONS (continued):

Colloquium, U.C. Davis, Department of Physics and Astronomy, 2007

Colloquium, U.C. Berkeley, Department of Astronomy, 2006

Colloquium, U. Michigan-Ann Arbor, Department of Astronomy, 2006

Colloquium, U. Pennsylvania, Department of Physics and Astronomy, 2006

Colloquium, U. Massachusetts, Department of Astronomy, 2006

Colloquium, U. Washington, Department of Astronomy, 2005

Colloquium, U.C. Berkeley Department of Physics, 2005

Invited Talk, *Plumian 300: The Quest for a Concordance Cosmology and Beyond*,
Cambridge, UK, 2004

Colloquium, U.C. Berkeley Department of Astronomy, 2002

GRADUATE FELLOWSHIPS AND HONORS:

Mary Elizabeth Uhl Prize (“for outstanding scholarly achievement”), 2000

The Berkeley Fellowship, 1997-1999

NSF Graduate Research Fellowship, 1994-1997

UNDERGRADUATE HONORS AND AWARDS:

Dorfman Prize for Undergraduate Research, 1994

High Honors in Physics and High Honors in Astronomy, 1994

Summa Cum Laude (all degrees), 1994

Senior Summer Scholarship (advisor: Leo Blitz), 1993

Admitted to Phi Beta Kappa and recieved Phi Beta Kappa Junior Award, 1993

Princeton Plasma Physics Lab Summer Undergraduate Research Fellowship, 1992

Francis Scott Key Scholarship (full academic scholarship), 1990-1994

National Merit Scholarship, 1990

PUBLICATIONS

Summary statistics from ADS queries: more than 200 publications, with more than 19,500 citations in total, yielding h-index=75; more than 170 refereed publications, with more than 18,000 citations in total, yielding h-index=74.

Bates, D., Tojeiro, R., Newman, J. A., Gonzalez-Perez, V., Comparat, J., Schneider, D. P., Lima, M. & Streblyanska, A.: *Mass Functions, Luminosity Functions, and Completeness Measurements from Clustering Redshifts*, ArXiv e-print, Arxiv:1810.01767 (2018)

Mandelbaum, R., Eifler, T., Hložek, R., Collett, T., Gawiser, E., Scolnic, D., Alonso, D., Awan, H., Biswas, R., Blazek, J., Burchat, P., Chisari, N. E., Dell’Antonio, I., Digel, S., Frieman, J., Goldstein, D. A., Hook, I., Ivezić, Ž., Kahn, S. M., Kamath, S., Kirkby, D., Kitching, T., Krause, E., Leget, P.-F., Marshall, P. J., Meyers, J., Miyatake, H., Newman, J. A., Nichol, R., Rykoff, E., Sanchez, F. J., Slosar, A., Sullivan, M. & Troxel, M. A.: *The LSST Dark Energy Science Collaboration (DESC) Science Requirements Document*, ArXiv e-print, Arxiv:1809.01669 (2018)

Bautista, J. E., Vargas-Magaña, M., Dawson, K. S., Percival, W. J., Brinkmann, J., Brownstein, J., Camacho, B., Comparat, J., Gil-Marín, H., Mueller, E.-M., Newman, J. A., Prakash, A., Ross, A. J., Schneider, D. P., Seo, H.-J., Tinker, J., Tojeiro, R., Zhai, Z. & Zhao, G.-B.: *The SDSS-IV Extended Baryon Oscillation Spectroscopic Survey: Baryon Acoustic Oscillations at Redshift of 0.72 with the DR14 Luminous Red Galaxy Sample*, ApJ, 863, 110 (2018)

Parikh, T., Thomas, D., Maraston, C., Westfall, K. B., Goddard, D., Lian, J., Meneses-Goytia, S., Jones, A., Vaughan, S., Andrews, B. H., Bershadsky, M., Bizyaev, D., Brinkmann, J., Brownstein, J. R., Bundy, K., Drory, N., Emsellem, E., Law, D. R., Newman, J. A., Roman-Lopes, A., Wake, D., Yan, R. & Zheng, Z.: *SDSS-IV MaNGA: the spatially resolved stellar initial mass function in 400 early-type galaxies*, MNRAS, 477, 3954 (2018)

Fielder, C. E., Mao, Y.-Y., Newman, J. A., Zentner, A. R. & Licquia, T. C.: *Predictably Missing Satellites: Subhalo Abundance in Milky Way-like Halos*, ArXiv e-print, Arxiv:1807.05180 (2018)

Fang, J. J., et al.: *Demographics of Star-forming Galaxies since $z \approx 2.5$. I. The UVJ Diagram in CANDELS*, ApJ, 858, 100 (2018)

Mantha, K. B., McIntosh, D. H., Brennan, R., Ferguson, H. C., Kodra, D., Newman, J. A., Rafelski, M., Somerville, R. S., Conselice, C. J., Cook, J. S., Hathi, N. P., Koo, D. C., Lotz, J. M., Simmons, B. D., Straughn, A. N., Snyder, G. F., Wuyts, S., Bell, E. F., Dekel, A., Kartaltepe, J., Kocevski, D. D., Koekemoer, A. M., Lee, S.-K., Lucas, R. A., Pacifici, C., Peth, M. A., Barro, G., Dahlen, T., Finkelstein, S. L., Fontana,

- A., Galametz, A., Grogin, N. A., Guo, Y., Mobasher, B., Nayyeri, H., Pérez-González, P. G., Pforr, J., Santini, P., Stefanon, M. & Wiklind, T.: *Major merging history in CANDELS. I. Evolution of the incidence of massive galaxy-galaxy pairs from $z = 3$ to $z = 0$* , MNRAS, 475, 1549 (2018)
- Dey, A., et al.: *Overview of the DESI Legacy Imaging Surveys*, ArXiv e-print, Arxiv:1804.08657 (2018)
- Abolfathi, B., et al.: *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*, The Astrophysical Journal Supplement Series, 235, 42 (2018)
- Ata, M., et al.: *The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: first measurement of baryon acoustic oscillations between redshift 0.8 and 2.2*, MNRAS, 473, 4773 (2018)
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