

Karl Gebhardt
Herman and Joan Suit Professor of Astrophysics

Mail Addresses

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Education

1994, Ph.D. in Physics and Astronomy, Rutgers University.
1990, M.S. Physics and Astronomy, Michigan State University, East Lansing, MI.
1986, B.S. Physics and Astronomy, University of Rochester, Rochester, NY.

Research Experience

2006 – present Professor, University of Texas at Austin
2006 – present Project Lead, Hobby-Eberly Telescope Dark Energy Experiment
2005 – 2010 Visiting Professor, Max-Planck-Institut fuer Extraterrestrische Physik
2004 – 2006 Associate Professor, University of Texas at Austin
2000 – 2004 Assistant Professor, University of Texas at Austin
1997 – 2000 Hubble Fellow, University of California, Santa Cruz
1994 – 1997 Postdoctoral research, University of Michigan
1991 – 1994 Ph.D. research with Dr. C. Pryor and Dr. T.B. Williams
1987 – 1991 M.S. research with Dr. T.C. Beers at Michigan State University

Honors and Awards

2016 Rutgers Distinguished Fellows, 250th Anniversary
2014 College of Natural Science Outreach Award
2012 Edith and Peter O'Donnell Award in Science from
the Academy of Medicine, Engineering and Science of Texas
2009 Herman and Joan Suit Professor of Astrophysics
2004 NSF CAREER Award
2004 Teaching Excellence Award, McDonald Board of Visitors
2003 Teaching Excellence Award, University of Texas
2003 Benjamin Dean Lecturer, Morrison Planetarium
2001 Invited talk at American Astronomical Society Meeting
1997 – 2000 Hubble Fellowship
1995 Recipient of the 1995 Northeastern Association of Graduate
Schools Dissertation Award (2 per year in Science)
1991 – 1993 U.S. Department of Education Fellowship
1990 Best Teaching Assistant at Michigan State University

Teaching Experience

Professor, University of Texas, 2000–present

2023, Fall, AST 309, “Popular Astronomy”, undergraduate
2023, Spring, AST 376, “Research Methods”, undergraduate
2022, Fall, AST 309, “Popular Astronomy”, undergraduate
2022, Spring, AST 381, “Gravitational Dynamics”, graduate
2019–2020, running HETDEX Sprint Events, undergraduate
2020, Fall, AST 309, “Popular Astronomy”, undergraduate
2020, Spring, AST 309, “Popular Astronomy”, undergraduate
2019, Spring, AST 376, “Research Methods”, undergraduate
2018, Fall, AST 376, “Research Methods”, undergraduate
2018, Spring, AST 376, “Research Methods”, undergraduate
2017, Fall, AST 376, “Research Methods”, undergraduate
2017, Spring, AST 376, “Research Methods”, undergraduate
2016, Fall, AST 376, “Research Methods”, undergraduate
2016, Fall, UGS 303, “Popular Astronomy”, undergraduate Signature Class
2015, Fall, UGS 303, “Popular Astronomy”, undergraduate Signature Class
2014, Fall, AST 376, “Research Methods”, undergraduate
2014, Fall, UGS 303, “Popular Astronomy”, undergraduate Signature Class
2014, Spring, AST 309, “Popular Astronomy”, undergraduate
2013, Fall, UGS 303, “Popular Astronomy”, undergraduate Signature Class
2013, Spring, AST 309, “Popular Astronomy”, undergraduate
2012, Fall, UGS 303, “Popular Astronomy”, undergraduate Signature Class
2011, Fall, UGS 303, “Popular Astronomy”, undergraduate Signature Class
2011, Spring, AST 309, “Popular Astronomy”, undergraduate
2010, Fall, UGS 303, “Popular Astronomy”, undergraduate Signature Class
2010, Spring, AST 309, “Popular Astronomy”, undergraduate
2008, Fall, AST 301, “Introductory Astronomy”, undergraduate
2008, Spring, AST 301, “Introductory Astronomy”, undergraduate
2008, Spring, AST 309, “Popular Astronomy”, undergraduate
2007, Spring, AST 358, “Galaxies”, advanced undergraduate
2006, Fall, AST 309, “Popular Astronomy”, undergraduate
2005, Spring, AST 358, “Galaxies”, undergraduate
2004, Fall, AST 309, “Popular Astronomy”
2004, Spring, AST 381C, “Gravitational Dynamics”, graduate
2004, Spring, AST 358, “Galaxies”, undergraduate
2003, Spring, AST 309, “Popular Astronomy”
2002, Fall, AST 104, “Undergrad Astronomy Seminar”
2002, Fall, AST 301, “Introductory Astronomy”
2002, Spring, AST 309, “Popular Astronomy”
2001, Fall, AST 301, “Introductory Astronomy”
2001, Spring, AST 309, “Popular Astronomy”

Substitute teaching, University of Michigan, 1993–1997

Taught numerous astronomy classes, undergraduate and graduate

Teaching Assistant, Rutgers University, 1991–1993
Classes in Introductory Astronomy
Instructor, Michigan State University, 1990
Instructor for Introductory Physics Course

Graduate Students Supervised

Marcel Bergmann (Co-Advisor), Ph.D. 2002
“Properties of Early-Type Galaxies in the Field and in Clusters”
Julia Silge, M.A., Ph.D. 2005
“Sweep the Dust Away: Kinematic Properties of Nearby Galaxies”
Marsha Wolf (Co-Advisor), Ph.D. 2005
“Galaxy Evolution at Red Shifts of z 1-2”
Eva Noyola, Ph.D. 2006
“Dynamical Studies of Globular Clusters and Their Connection to Galaxy Formation”
Amy Forestell, M.A., Ph.D. 2009
“Dark Halo Profiles in Elliptical Galaxies”
Amanda Bauer (Co-Advisor), Ph.D. 2008
“Emission Line Properties of High Redshift Galaxies”
John Blum, M.S. 2009
“Can Globular Cluster IMBH Microlens Events Be Detected”
Josh Adams (Co-Advisor), anticipated Ph.D. 2011
“Lyman-Alpha Emitters”
Guillermo Blanc, Ph.D. 2011
“Star Formation and Lyman-Alpha Emitters”
Jeremy Murphy, Ph.D. 2012
“Dark Halo Profiles for Brightest Cluster Galaxies”
Amanda Heiderman, Ph.D. 2012
“Star Formation in Extreme Environments”
John Jardel, Ph.D. 2014
“Dark Halo Profiles for Nearby Galaxies”
Yi-Kuan Chiang, Ph.D. 2017
“Proto-Clusters”
Marie Bustamante Rossell, anticipated Ph.D. 2020
“Nearby Galaxies and Dark Matter Profiles”
Dustin Davis, anticipated Ph.D. 2023
“HETDEX”
Andrew Leung, Masters 2019
“Disk Models for Nearby Galaxies”
Chenxu Liu, Ph.D. 2020
“AGNs in HETDEX”
Lindsay House, anticipated Ph.D. 2025
“Citizen Science and HETDEX”
Laurel Weiss, anticipated Ph.D. 2026
“LAEs in HETDEX”

Undergraduate Students Supervised

About 25 from 2018-2022, below is a list of names from previous years:

Dustin Davis (2014-2017), Christian Tatum (2016), Abhishek Rajput (2015-2017), Aditi Raye Allen (2010-2012), Bart Hosier (2010-2012), Lindsey Fuller (2009-2011), Joyce Byun (2007-2009), Alysha Shugart (2008-2011), Seth Anderson (2008-2009), Dillon Kuenher (2008-2009), Alexander Fry (2006-2008), Jeff Kinzler (2006-2007), Robert Hollingsworth (2004-2005), Rebecca Christian (2001-2003), Sarah Busch (2003-2004), Andrew Horning (2003-2004), Phillip Cargile (2003-2005), Heather Barnes (2003), Rodolfo Montez (2001-2002), Allen Ehrlicher (2001)

Departmental and University Committees

Chair, Graduate Admission Committee (2022-2023)
Chair, Vaughan Search Committee (2021-present)
Member, CNS Faculty Development Leave Committee (2022-present)
Member, CNS Texas Science Festival Planning Committee (2022)
Member, UT Strategies Committee for Capital Campaign (2022)
Member, Oversight Committee for Texas Advanced Computing Center (2017-present)
Member, McDonald Directory Faculty Advisory Committee (2018-present)
Member, Graduate Admissions Committee (2020-2022)
Member, Evaluations Committee (2020-2021)
Member, Teaching Review Committee (2018-2022)
Member, Faculty Search Committee (2018)
Member, HET Users Committee (2016-2019)
Member, Evaluations Committee (2016-2018)
Member, Teaching Review (2015-2017)
Associate Chair (2012-2014)
Member, CNS Promotion and Tenure Committee (2014)
Member, Evaluations Committee (2012-2013)
Member, Graduate Studies Committee (2008-present)
Chair, Future's Committee (2009-2010)
Chair, Evaluations Committee (2007-2008)
Chair, Post-Tenure Review Committee (2006-2007)
Member, STARDATE Advisor Council (2006-present)
Undergraduate Astronomy Advisor (2002-2005)
Member, GMT Science Working Group (2004-2008)
Member, HET Users Committee (2002-2007)
Chair: McDonald Users Committee (2001-2003)
McDonald Director Advisory Committee (2001-2003)
McDonald Observatory Telescope Allocation Committee (2001-2004)
Natural Science Course and Curriculum Committee (2001-2005)
Member, Faculty Search Committee (2003)
Member, Faculty Search Committee (2004)

Professional Public Service

2022-present Member, JWST Review Panel

2022 Member, NSF Review Panel
2017–2020 Member, College of Review for Canada Institute of Health
2016–2018 Member, NSERC Banting Committee
2015 Chair, NSERC Physics Panel
2012–2014 Member, NSERC Physics Panel
2011–2013 Member, Gemini Telescope Board
2011 Member, Gemini Director Search Committee
2009 Member, NRC Astro2010 Decadal Survey
2009 Conference Organizer for Malta Meeting
2007–2009 Member, NOAO Telescope Allocation Committee
2007–present Referee for European Research Council
2006–2009 Member, AURA Oversight Committee for Gemini Telescope
2005–2009 Chair, NOAO Gemini Science Advisory Committee
2008–2009 Member, NASA/DoE JDEM Science Coordination Group
2009 Member, NSF Fellowship Selection Committee
2008 Conference Organizer for Leiden Workshop on Black Holes and Nuclear Clusters
2007 Member, NRC Beyond Einstein Program Assessment Committee
2007 Member, Galaxy Panel of HST Telescope Allocation Committee
2006 Member, ESO OPC
2005 Member, NSF AST Senior Review
2004 Member, Galaxy Panel of HST Telescope Allocation Committee
2004 Conference Organizer of Intermediate Mass Black Hole Workshop at Penn State
2003 Member, Gemini Observatory Aspen Workshop
2002 NASA Space Science Update on Black Holes in Globular Clusters
2002 Conference Organizer of Black Hole Workshop at UCSB/ITP
2002 Referee, Israeli National Science Foundation
2001 Member, NSF Galaxy Panel Grant Selection Committee
2001 Conference Organizer of Omega Cen Workshop at Cambridge
2000 Member, NSF Fellowship Selection Committee
2000 Member, NASA SIM Science Selection Panel
1998 Member, Galaxy Panel of HST Telescope Allocation Committee
1998–present Referee for NSF, ApJ, AJ, ApJL, MNRAS, A&A, NSERC, Canadian TAC, HST 8 tim

Participation in Public Lectures or Forums

2017–present average 6–10 per year
2016 Rutgers 250 Fellows
2016 UT Lamp Lecture
2016 UT Houston Event
2015 UT Engineering
2015 UT Forum
2014 Lecture for UT System
2014 Lecture in Laredo for McDonald 75th
2011 Lecture for UT Forum
2011 Press Release at AAS Seattle Meeting
2010 Lecture at Rochester Science Museum

- 2010 Great Lecture at McDonald Observatory Board of Visitors
- 2009 Plenary Speaker at APS Meeting in San Marcos
- 2009 Speaker at Austin Eastside High School
- 2009 Blanco Library Women's Club
- 2009 AAS Press Release on Black Hole in M87
- 2009 Speaker at San Antonio Science Museum
- 2009 Speaker at Society of Physics Students, Austin
- 2009 Austin Lions Club Speaker
- 2008 Keynote Speaker at St. Edwards University
- 2008 Speaker at Lehman High School
- 2008 Featured Speaker at Smithsonian Associates in Washington D.C
- 2008 Dark Energy Webpage at <http://hetdex.org/>
- 2007 Keynote Speaker at Siemens Award Banquet
- 2007 Public Lecture, Texas Academy of Medicine, Engineering, Science and Technology
- 2007 Dean's Scholars Lecture Series, University of Texas
- 2006 City of Rochester OASIS Group Lecture
- 2006 Public Lecture, School of Architecture, University of Texas "HETDEX"
- 2005 Black Hole Webpage at <http://blackholes.stardate.org/>
- 2004 Public Lecture, Cleveland Museum of Natural History "Black Holes in the Universe"
- 2004 Public Lecture, University of Texas Honors Colloquium "Black Holes in the Universe"
- 2003 Public Lecture, Morrison Planetarium "Black Holes and Dark Matter"
- 2003 Public Lecture, Lakeway Club "Black Holes and Dark Matter"
- 2003 Dean's Scholars Lecture Series, University of Texas
- 2002 TV appearance, NASA Space Science Update "Black Holes in Unexpected Places"
- 2001 Radio Show, Earth & Sky "Black Holes"
- 2001 TV appearance, Discovery Channel "Horizon-Supermassive Black Holes"
- 2001 TV appearance, Japan Science Series "Supermassive Black Holes"
- 2000 Dean's Scholars Lecture Series, University of Texas

Refereed Publications

- 188. Bustamante-Rosell, M.J. et al. 2023 "The LIGO HET Response (LIGHETR) Project to Discover and Spectroscopically Follow Optical Transients Associated with Neutron Star Mergers", *ApJ*, 954, 102
- 187. Chavex Ortiz, O. et al. 2023 "Introducing the Texas Euclid Survey for Ly alpha (TESLA) Survey: Initial Study Correlating Galaxy Properties to Ly alpha Emission", *ApJ*, 952, 110
- 186. Sun, D. et al. 2023 "Cosmological-scale Ly Forest Absorption around Galaxies and AGNs Probed with the HETDEX and SDSS Spectroscopic Data", *ApJ*, 951, 25
- 185. House, L., Gebhardt, K. et al. 2023 "Using Dark Energy Explorers and Machine Learning to Enhance the Hobby-Eberly Telescope Dark Energy Experiment", *ApJ*, 950 92
- 184. Zhang, Y., Ouchi, M., Gebhardt, K. et al. 2023 "The Stellar Mass-Black Hole

- Mass Relation at $z \approx 2$ Determined by HETDEX”, *ApJ*, 948, 103
183. Davis, D., Gebhardt, K. et al. 2023, “The HETDEX Survey Emission-line Exploration and Source Classification”, *ApJ*, 946, 86
182. Tardugno Poleo, V. et al. 2023, “Identifying Active Galactic Nuclei at $z \approx 3$ from the HETDEX Survey Using Machine Learning”, 165, 153
181. Vinko, J. et al. 2023, “Searching for Supernovae in HETDEX Data Release 3”, 946, 31
180. Mentuch Cooper, E., Gebhardt, K. et al. 2023, “HETDEX Public Source Catalog 1: 220 K Sources Including Over 50 K Ly Emitters from an Untargeted Wide-area Spectroscopic Survey”, 943, 177
179. Liu, C., Gebhardt, K. et al. 2022, “The Active Galactic Nuclei in the Hobby-Eberly Telescope Dark Energy Experiment Survey (HETDEX). III. A Red Quasar with Extremely High Equivalent Widths Showing Powerful Outflows”, 940, 40
178. Laseter, I. et al. 2022, “A Search for Lensed Ly Emitters within the Early HETDEX Data Set”, 940, 9
177. McCarron, A. et al. 2022, “Stellar Populations of Ly-emitting Galaxies in the HETDEX Survey. I. An Analysis of LAEs in the GOODS-N Field”, *ApJ*, 936, 131
176. Liu, C., Gebhardt, K. et al. 2022, “The Active Galactic Nuclei in the Hobby-Eberly Telescope Dark Energy Experiment Survey (HETDEX). I. Sample Selection”, *ApJS*, 261, 24
175. Liu, C., Gebhardt, K. et al. 2022, “The Active Galactic Nuclei in the Hobby-Eberly Telescope Dark Energy Experiment Survey (HETDEX). II. Luminosity Function”, *ApJ*, 935, 132
174. Lujan Niemeyer, M. et al. 2022, “Ly-alpha Halos around [O III]-selected Galaxies in HETDEX”, *ApJ*, 934, 26
173. Hauschild Roier, G. et al. 2022, “Gas inflows in the polar ring of NGC 4111: the birth of an AGN”, *MNRAS*, 512, 2556
172. Lujan Niemeyer, M. et al. 2022, “Surface Brightness Profile of Lyman- Halos out to 320 kpc in HETDEX”, *ApJ*, 929, 90
171. Gebhardt, K. et al. 2021, “HETDEX Survey Design, Reduction, and Detections”, *ApJ*, 923, 217
170. Zhang, Y. et al. 2021, “First HETDEX Spectroscopic Determinations of Ly and UV Luminosity Functions at $z \approx 2.3$: Bridging a Gap Between Faint AGN and Bright Galaxies”, *ApJ*, 922, 167
169. Hill, G. et al. 2021, “The HETDEX Instrumentation: Hobby-Eberly Telescope Wide Field Upgrade and VIRUS”, *AJ*, 162, 298
168. Davis, D. et al. 2021, “Detection of Lyman Continuum from $3.0 < z < 3.5$ Galaxies in the HETDEX Survey”, *ApJ*, 920, 122

- 167. Farrow, D. et al. 2021, “Correcting correlation functions for redshift-dependent interloper contamination”, MNRAS, 507, 318
- 166. Cohn, J. et al. 2021, “An ALMA Gas-dynamical Mass Measurement of the Supermassive Black Hole in the Local Compact Galaxy UGC 2698”, ApJ, 919, 77
- 165. Weiss, L. et al. 2021, “The HETDEX Survey: The Ly Escape Fraction from 3D-HST Emission-Line Galaxies at $z=2$ ”, ApJ, 912, 100
- 164. Hawkins, K. et al. 2021, “The Stars of the HETDEX Survey. I. Radial Velocities and Metal-poor Stars from Low-resolution Stellar Spectra”, ApJ, 911, 108
- 163. Mukae, S. et al. 2020, “Cosmological 3D H I Gas Map with HETDEX Ly α Emitters”, ApJ, 903, 24
- 162. Hong, S. et al. 2020, “Constraining cosmology with big data statistics of cosmological graphs”, MNRAS, 493, 5972
- 161. Grasshorn Gebhardt, H. et al. 2019, “Unbiased Cosmological Parameter Estimation from Emission-line Surveys with Interlopers”, ApJ, 876, 32
- 160. Hong, S et al. 2019, “Statistics of two-point correlation and network topology for Ly α emitters at $z=2.67$ ”, MNRAS, 483, 3950
- 159. Chiang, Y-K. et al. 2017, “Galaxy Protoclusters as Drivers of Cosmic Star Formation History in the First 2 Gyr”, ApJ, 844, L23
- 158. Yildirim, A. et al. 2017, “The structural and dynamical properties of compact elliptical galaxies”, MNRAS, 468, 4216
- 157. Leung, A. et al. 2017, “Bayesian Redshift Classification of Emission-line Galaxies with Photometric Equivalent Widths”, ApJ, 843, 130
- 156. Walsh, J. et al. 2017, “A Black Hole Mass Determination for the Compact Galaxy Mrk 1216”, ApJ, 835, 208
- 155. Hong, S. et al. 2016, “Discriminating topology in galaxy distributions using network analysis”, MNRAS, 459, 2690
- 154. Papovich, C. et al. 2016, “The Spitzer-HETDEX Exploratory Large-area Survey”, ApJS, 224, 28
- 153. Yildirim, A. et al. 2016, “The massive dark halo of the compact early-type galaxy NGC 1281”, MNRAS, 456, 538
- 152. Walsh, J. et al. 2016, “A $5e9$ Msun Black Hole in NGC 1277 from Adaptive Optics Spectroscopy”, ApJ, 817, 2
- 151. Yildirim, A. et al. 2015, “MRK 1216 and NGC 1277 - an orbit-based dynamical analysis of compact, high-velocity dispersion galaxies”, 452, 1792
- 150. Lutzgendorf, N. et al. 2015, “Re-evaluation of the central velocity-dispersion profile in NGC 6388”, A&A, 581, 1
- 149. Walsh, J. et al. 2015, “The Black Hole in the Compact, High-dispersion Galaxy

- NGC 1271”, *ApJ*, 808, 183
148. Chiang, Yi-Kuan et al. 2015, “Surveying Galaxy Proto-clusters in Emission: A Large-scale Structure at $z = 2.44$ and the Outlook for HETDEX”, *ApJ*, 808, 37
147. Pota, V. et al. 2015, “A SLUGGS and Gemini/GMOS combined study of the elliptical galaxy M60: wide-field photometry and kinematics of the globular cluster system”, *MNRAS*, 450, 1962
146. van den Bosch, R. et al 2015, “Hunting for Supermassive Black Holes in Nearby Galaxies With the Hobby-Eberly Telescope”, *ApJS*, 218, 10
145. Bridge, J. et al. 2015, “Physical and Morphological Properties of [O II] Emitting Galaxies in the HETDEX Pilot Survey”, *ApJ*, 799, 205
144. Song, M. et al. 2014, “The HETDEX Pilot Survey. V. The Physical Origin of Ly α Emitters Probed by Near-infrared Spectroscopy”, *ApJ*, 791, 3
143. Adams, J. et al. 2014, “Dwarf Galaxy Dark Matter Density Profiles Inferred from Stellar and Gas Kinematics”, *ApJ*, 789, 63
142. Dowell, J. et al. 2014, “Beyond the Brim of the Hat: Kinematics of Globular Clusters out to Large Radii in the Sombrero Galaxy”, *AJ*, 147, 150
141. Hagen, A. et al. 2014, “Spectral Energy Distribution Fitting of HETDEX Pilot Survey Ly α Emitters in COSMOS and GOODS-N”, *ApJ*, 786, 59
140. Murphy, J., Gebhardt, K., Cradit, M. 2014, “The Rising Stellar Velocity Dispersion of M87 from Integrated Starlight”, *ApJ*, 785, 143
139. Viero, M.P. et al. 2014, “The Herschel Stripe 82 Survey (HerS): Maps and Early Catalog”, *ApJS*, 210, 22
138. Chiang, Y.-K., Overzier, R., Gebhardt, K. 2014, “Discovery of a Large Number of Candidate Protoclusters Traced by 15 Mpc-scale Galaxy Overdensities in COSMOS”, *ApJ*, 782, 3
137. Gultekin, K., Gebhardt, K. et al. 2014, “The Black Hole Mass and the Stellar Ring in NGC 3706”, *ApJ*, 781, 112
136. Chiang, C.-T. et al. 2013, “Galaxy redshift surveys with sparse sampling”, *JCAP*, 12, 30
135. Chiang, Y.-K., Overzier, R., Gebhardt, K. 2013, “Ancient Light from Young Cosmic Cities: Physical and Observational Signatures of Galaxy Proto-clusters”, *ApJ*, 779, 127
134. Jimmy et al. 2013, “Angular Momenta, Dynamical Masses, and Mergers of Brightest Cluster Galaxies”, *ApJ*, 778, 171
133. Greene, J. et al. 2013, “The Stellar Halos of Massive Elliptical Galaxies. II. Detailed Abundance Ratios at Large Radius”, *ApJ*, 776, 64
132. Chonis, T. et al. 2013, “The Spectrally Resolved Ly α Emission of Three Ly α -selected Field Galaxies at $z=2.4$ from the HETDEX Pilot Survey”, *ApJ*, 775, 99

- 131. Jardel, J. & Gebhardt, K. 2013, “Variations in a Universal Dark Matter Profile for Dwarf Spheroidals”, *ApJ*, 775, 30
- 130. Lutzgendorf, N. et al. 2013, “M - sigma relation for intermediate-mass black holes in globular clusters”, *A&A*, 555, 26
- 129. Feldmeier, A. et al. 2013, “Indication for an intermediate-mass black hole in the globular cluster NGC 5286 from kinematics”, *A&A*, 554, 63
- 128. Ciardullo, R. et al. 2013, “The HETDEX Pilot Survey. IV. The Evolution of [O II] Emitting Galaxies from $z=0.5$ to $z=0$ ”, *ApJ*, 769, 83
- 127. McConnell, N. et al. 2013, “The Effect of Spatial Gradients in Stellar Mass-to-light Ratio on Black Hole Mass Measurements”, *ApJ*, 768, 21
- 126. Blanc, G. et al. 2013, “The VIRUS-P Exploration of Nearby Galaxies (VENGA): Survey Design, Data Processing, and Spectral Analysis Methods”, *AJ*, 145, 138
- 125. Humphrey, P. et al. 2013, “Reconciling stellar dynamical and hydrostatic X-ray mass measurements of an elliptical galaxy with gas rotation, turbulence and magnetic fields”, *MNRAS*, 430, 1516
- 124. Lutzgendorf, N. et al. 2013, “Limits on intermediate-mass black holes in six Galactic globular clusters with integral-field spectroscopy”, *A&A*, 552, 49
- 123. Blanc, G. et al. 2013, “The VIRUS-P Exploration of Nearby Galaxies (VENGA): The X CO Gradient in NGC 628”, *ApJ*, 764, 117
- 122. Jardel, J., Gebhardt, K. et al. 2013, “Measuring Dark Matter Profiles Non-Parametrically in Dwarf Spheroidals: An Application to Draco”, *ApJ*, 763, 91
- 121. van den Bosch, R., Gebhardt, K. et al. 2012, “An over-massive black hole in the compact lenticular galaxy NGC 1277”, *Nature*, 491, 729
- 120. McConnell, N. et al. 2012, “Dynamical Measurements of Black Hole Masses in Four Brightest Cluster Galaxies at 100 Mpc”, *ApJ*, 756, 179
- 119. Lutzgendorf et al. 2012, “High-velocity stars in the cores of globular clusters: the illustrative case of NGC 2808”, *A&A*, 543, 82
- 118. Lutzgendorf et al. 2012, “Central kinematics of the globular cluster NGC 2808: upper limit on the mass of an intermediate-mass black hole”, *A&A*, 542, 129
- 117. Greene, J. et al. 2012, “The Stellar Halos of Massive Elliptical Galaxies”, *ApJ*, 750, 32
- 116. Norris, M. et al. 2012, “The globular cluster kinematics and galaxy dark matter content of NGC 3923”, *MNRAS*, 421, 1485
- 115. Jardel, J. & Gebhardt, K. 2012, “The Dark Matter Density Profile of the Fornax Dwarf”, *ApJ*, 746, 89
- 114. Jalali, B. et al. 2012, “A Dynamical N-body model for the central region of Centauri”, *A&A*, 538, 19
- 113. Adams, J. et al. 2012, “The Central Dark Matter Distribution of NGC 2976”,

- ApJ, 745, 92
112. McConnell, N. et al. 2011 “Two ten-billion-solar-mass black holes at the centres of giant elliptical galaxies”, *Nature*, 480, 215
111. Gültekin et al. 2011, “Is There a Black Hole in NGC 4382?”, *ApJ*, 741, 38
110. Faifer, F. et al. 2011, “Gemini/GMOS imaging of globular cluster systems in five early-type galaxies”, *MNRAS*, 416, 155
109. Jardel, J., Gebhardt, K. et al. 2011, “Orbit-based Dynamical Models of the Sombrero Galaxy (NGC 4594)”, *ApJ*, 739, 21
108. Lutzgendorf, N. et al. 2011, “Kinematic signature of an intermediate-mass black hole in the globular cluster NGC 6388”, *A&A*, 533, 36
107. Murphy, J., Gebhardt, K., Adams, J. 2011, “Galaxy Kinematics with VIRUS-P: The Dark Matter Halo of M87”, *ApJ*, 729, 129
106. Gebhardt, K. et al. 2011, “The Black-Hole Mass in M87 from Gemini/NIFS Adaptive Optics Observations”, *ApJ*, 729, 119
105. Thomas, J. et al. 2011, “Dynamical masses of early-type galaxies: a comparison to lensing results and implications for the stellar IMF and the distribution of dark matter”, *MNRAS*, 415, 545
104. Finkelstein, S. et al. 2011, “The HETDEX Pilot Survey. III. The Low Metallicities of High-redshift Ly. Galaxies”, *ApJ*, 729, 140
103. Blanc, G. et al. 2011, “The HETDEX Pilot Survey. II. The Evolution of the Ly-alpha Escape Fraction from the UV Slope and Luminosity Function of $1.9 < z < 3.8$ LAEs”, *ApJ*, accepted
102. Adams, J. et al. 2011, “The HETDEX Pilot Survey. I. Survey Design, Performance, and Catalog of Emission-line Galaxies”, *ApJS*, 192, 5
101. Schulze, A., & Gebhardt, K. 2011, “Effect of a Dark Matter Halo on the Determination of Black Hole Masses”, *ApJ*, 729, 21
100. McConnell, N. et al. 2011, “The Black Hole Mass in Brightest Cluster Galaxy NGC 6086”, *ApJ*, 728, 100
99. Noyola, E., Gebhardt, K. et al. 2010, “Very Large Telescope Kinematics for Omega Centauri: Further Support for a Central Black Hole”, *ApJL*, 719, L60
98. Forestell, A. & Gebhardt, K. 2010, “Hobby-Eberly Telescope Observations of the Dark Halo in NGC 821”, *ApJ*, 716, 370
97. Churavoz, E. et al. 2010, “Comparison of approximately isothermal gravitational potentials of elliptical galaxies based on X-ray and optical data”, *MNRAS*, 404, 1165
96. Shen, J. & Gebhardt, K. 2010, “The Supermassive Black Hole and Dark Matter Halo of NGC 4649 (M60)”, *ApJ*, 711, 484
95. Blanc, G., Heiderman, A., Gebhardt, K., Evans, N.J., & Adams, J. 2009,

- “The Spatially Resolved Star Formation Law From Integral Field Spectroscopy: VIRUS-P Observations of NGC 5194”, *ApJ*, 704, 842
94. Gebhardt, K., & Thomas, J. 2009, “The Black Hole Mass, Stellar M/L, and Dark Halo in M87”, *ApJ*, 700, 1690
 93. Humphrey, P., Buote, D., Brighenti, F., Gebhardt, K., Mathews, W. 2009, “Hydrostatic Gas Constraints on Supermassive Black Hole Masses: Implications for Hydrostatic Equilibrium and Dynamical Modeling in a Sample of Early-type Galaxies”, 793, 1257
 92. K. Gultekin et al. 2009, “The M-sigma and M-L Relations in Galactic Bulges and Determinations of their Intrinsic Scatter”, *ApJ*, 698, 198
 91. K. Gultekin et al. 2009, “A Quintet of Black Hole Mass Determinations”, *ApJ*, 695, 1577
 90. J. Thomas et al. 2009, “The flattening and the orbital structure of early-type galaxies and collisionless N-body binary disk mergers”, *MNRAS*, 393, 641
 89. J. Thomas et al. 2009, “Dark matter scaling relations and the assembly epoch of Coma early-type galaxies”, *ApJ*, 691, 770
 88. M. Bernardi et al. 2008, “A Search for the Most Massive Galaxies. II. Structure, Environment and Formation”, *MNRAS*, 391, 1191
 87. S. Salviander et al. 2008, “In Search of the Largest Velocity Dispersion Galaxies”, *ApJ*, 687, 828
 86. N. Nowak et al. 2008, “The supermassive black hole of Fornax A”, *MNRAS*, 391, 1629
 85. C. Siopis, K. Gebhardt et al. 2009, “A Stellar Dynamical Measurement of the Black Hole Mass in the Maser Galaxy NGC 4258”, *ApJ*, 693, 946
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 83. E. Noyola, K. Gebhardt, & M. Bergmann 2008, “Gemini and Hubble Space Telescope Evidence for an Intermediate Mass Black Hole in omega Centauri”, *ApJ*, 676, 1008
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3. K. Gebhardt, & T.C. Beers 1991, “Bound Populations Around cD Galaxies and cD Velocity Offsets in Clusters of Galaxies”, *ApJ*, 383, 72–89 B,3
2. T.C. Beers, W. Forman, J.P. Huchra, C. Jones, & K. Gebhardt 1991, “A Dynamical Analysis of Twelve Clusters of Galaxies”, *AJ*, 102, 1581–1609 C,3
1. T.C. Beers, K. Flynn, & K. Gebhardt 1990, “Measures of Location and Scale for Velocities in Clusters of Galaxies - A Robust Approach”, *AJ*, 100, 32–46 C,3

Letters in the right-hand margin refer to the following categories: A is group leader and principle investigator, B is primary junior researcher, C is essential collaborator, and D is peripheral collaborator. Numbers in the right-hand margin refer to the stage of career: 0 is professor, 1 is assistant professor, 2 is postdoc, and 3 is graduate student.

Non-Refereed Publications

- K. Gebhardt 2003, “Influence of Black Holes on Stellar Orbits”, in “Carnegie Observatories Astrophysics Series, Vol. 1: Coevolution of Black Holes and Galaxies, ed. L.C. Ho (Pasadena: Carnegie Observatories)
- J. Kormendy, & K. Gebhardt 2000, “Supermassive Black Holes in Galactic Nuclei”, in “Relativistic Astrophysics: 20th Texas Symposium”, eds. J.C. Wheeler, H. Martel. (New York: AIP), 363–381
- K. Gebhardt 1999, “Central Black Holes and Galaxy Evolution”, in “ESO Black Holes in Binaries and Galactic Nuclei”, eds L. Kaper, E. van den Heuvel, P. Woudt (ESO: Springer), 259–264
- D. Richstone, K. Gebhardt et al. 1996, “The Centers of Galaxies”, in *Dynamical Evolution of Star Clusters*, ed. P. Hut and J. Makino (IAU)
- D. Merritt, & K. Gebhardt 1994, “Cluster Dynamics and Cluster Masses”, in *Clusters of Galaxies, Proceedings of the XXIXth Rencontre de Moriond*, ed F. Duret, A. Mazure, and J. Tran Thanh Van (Editions Frontier, Singapore), p.11
- K. Gebhardt, C. Pryor, T.B. Williams, & J.E. Hesser 1993, “The Inner Velocity Structure of M15 Measured with a Fabry-Perot”, in *Structure and Dynamics of Globular Clusters*, ed. S.G. Djorgovski and G. Meylan (ASP), p.77

Grants

2021: \$160,000 NASA
 “Citizen Science with HETDEX”

2020: \$920,000 National Science Foundation
“Advancing the Hobby-Eberly Telescope Dark Energy Experiment”

2016: \$280,000 National Science Foundation
“Dark Matter Profiles in Nearby Galaxies”

2011: \$91,745 NASA
“Spitzer-HETDEX Exploratory Large Area Survey”

2010: \$8,000,000 National Science Foundation
“Hobby-Eberly Telescope Dark Energy Experiment”

2010: \$75,000 National Science Foundation
“StarDate: Black Hole Encyclopedia and Enciclopedia de Agujeros Negros”

2009: \$555,076 National Science Foundation
“Black Holes vs. Dark Matter”

2009: \$55,875 Space Telescope Science Institute
“Globular Cluster Candidates for Hosting a Central Black Hole”*

2009: \$29,670 National Science Foundation
“CAREER: Dark Matter and Black Holes, Deconstructing Galaxies”

2006: \$98,000 Texas Higher Education Coordinating Board
“The Hobby-Eberly Telescope Dark Energy Experiment”*

2005: \$1,575 Space Telescope Science Institute
“The Compact Disk of Blue Stars Orbiting M31 Black Hole”*

2005: \$43,901 Space Telescope Science Institute
“Black Holes in Big Galaxies with Small Bulges”

2005: \$19,892 Space Telescope Science Institute
“Black Hole Web Site for Teachers, Students, and the Public”

2004: \$400,336 National Science Foundation
“CAREER: Dark Matter and Black Holes, Deconstructing Galaxies”

2004: \$59,978 Space Telescope Science Institute
“Surface Brightness Profiles for LMC/SMC Clusters”

2004: \$13,340 Space Telescope Science Institute
“The Biggest Galaxies in the Universe: Double Trouble”*

2003: \$79,737 Space Telescope Science Institute
“Search for Black Holes in M31 Globular Clusters”

2003: \$19,905 Space Telescope Science Institute
“Black Holes in Big Galaxies with Small Bulges”*

2002: \$59,720 Space Telescope Science Institute
“Surface Brightness Profiles of Globular Clusters”

2002: \$11,570 Space Telescope Science Institute
“High Spatial Resolution Spectroscopy of G1”*

2001: \$96,000 Texas Advanced Research Program
“The Dynamical Structure of Nearby Galaxies”

2001: \$17,401 Space Telescope Science Institute
“The Smallest Nuclear Black Holes”*

2001: \$27,073 Space Telescope Science Institute
“The Biggest Black Holes”*

2000: \$27,974 Space Telescope Science Institute
“Orbital Structure and Black Hole in NGC3379”
2000: \$42,130 Space Telescope Science Institute
“The Fundamental Plane of Nuclear Black Holes”*
2000: \$12,201 Space Telescope Science Institute
“Elliptical Galaxies with Nuclear Disks of Stars”*
1999: \$3,781 Space Telescope Science Institute
“Geometric Distances of Globular Clusters”*
1997: \$300,000 Space Telescope Science Institute
Hubble Fellowship
1996: \$10,050 Space Telescope Science Institute
“Photometry for M28 and NGC5286”
1996: \$9,150 Space Telescope Science Institute
“Black Holes and the Centers of Galaxies”*

I am PI with sole authority over all grants listed above. The grants marked with an asterisk are those with Co-Is at other institutions with separate budgets.

Financial Support from Private Donors and Institutions

2006-present: \$27,000,000 Various private, State, Institutions
Contribution to Hobby-Eberly Telescope Dark Energy Experiment

Invited Talks and Reviews

Nov, 2022 : Marfa Ballroom Invited Presentation
Oct, 2022 : KIAS invited review, Seoul
May, 2022 : LAMP presentation
April, 2022 : Dark Skies event presentation
April, 2022 : Physics Undergraduate presentation
Feb, 2022 : Colloquium at University of Portsmouth
Feb, 2022 : ASA presentation
June, 2021 : Texas Star Party
April, 2021 : Society of Physics Students
March, 2021 : CNS Texas Science
Oct, 2020 : CNS presentation on HETDEX
Oct, 2020 : SPS presentation
May, 2020 : Business School Towers Fellow Talk
Feb, 2020 : Towers Fellow Talk
Feb, 2020 : Cactus Cafe Discussion
Nov, 2019 : Invited Talk at Rochester Science Museum
Oct, 2019 : Colloquium at Missouri Science and Technology
Sept, 2019 : Invited Talk at Town and Gown
Aug, 2019 : Invited Talk at Houston Event for Outreach
June, 2019 : Keynote Speaker at the EKAL Foundation Annual Meeting
Oct, 2017 : Invited Review for Sandra Faber Gruber Prize
Oct, 2017 : Plenary Talk at Texas APS, Dallas

Sept, 2017 : Plenary Talk at German Astronomical Society Meeting
Sept, 2017 : Colloquium at Texas A&M University
Sept, 2017 : Dean's Scholar Talk
April, 2017 : HET Dedication Presentation
March, 2017 : Texas Rotary Club Presentation
March, 2017 : Explore UT Presentation
Feb, 2017 : Colloquium at Baylor University
Feb, 2017 : UT Quest Presentation
Jan, 2017 : UT Forum Presentation
Jan, 2017 : Colloquium at UTRGV
Nov, 2016 : Major Award Talk at Rutgers University
Feb, 2016 : Colloquium at University of Minnesota
Feb, 2015 : Colloquium at Carnegie Institute
Nov 10, 2014 : Colloquium at University of Colorado
July 10, 2014 : Talk to NSF/MPS
May 15, 2014 : Colloquium at University of Washington
Feb 14, 2014 : Colloquium at Queens University
Jan 31, 2014 : Colloquium at UT San Antonio
Dec 11, 2013 : Colloquium at Johns Hopkins
Oct 11, 2013 : Colloquium at University of Waterloo
July 10, 2013 : Review Talk at High Energy Meeting, Deadwood
March 27, 2013 : Colloquium at University of Texas Physics
June 14, 2012 : Review Talk at AAS
Jan 12, 2012 : Talk at TAMEST, Houston
May 18, 2011 : Colloquium at Penn State University
March 15, 2011 : Review Talk at Texas A&M University Gmt
Feb 4, 2011 : Colloquium at New Mexico State University
Nov 17, 2010 : Colloquium at Baylor University
Sept 21, 2010 : Review at AIP Galaxy Formation Meeting, Potsdam, Germany
Sept 17, 2010 : Review at School of Nuclear Physics in Erice, Sicily
June 23, 2010 : Review at ESO Black Hole Meeting
June 17, 2010 : Colloquium at Dwinglo, The Netherlands
June 14, 2010 : Colloquium at Kapteyn Institute, The Netherlands
June 11, 2010 : Colloquium at IAP, Paris
May 13, 2010 : Review at Sackler Black Hole Meeting, Cambridge
March 17, 2010 : Distinguished Lecture Series at Rochester Science Museum
Feb 6, 2010 : Great Lecture at McDonald Board of Visitors Meeting
Jan 14, 2010 : University of Michigan Colloquium
Oct 28, 2009 : Michigan State University Colloquium
Oct 8, 2009 : NOAO/Arizona Colloquium
Sept 2, 2009 : University of Florida Colloquium
June 8, 2009 : Review on Adaptive Optics Science at AAS, Pasadena
April 22, 2009 : UCLA Colloquium
April 21, 2009 : Carnegie Observatories Colloquium

April 3, 2009 : Irvine Meeting on IMBH
March 30, 2009 : Review at Cook's Branch Meeting
Oct 10, 2008 : Review at Leopoldina Conference, Munich
May 8, 2008 : Ludwig-Maximilians-Universitaet (Munich) Colloquium
March 7, 2008 : Rutgers University Colloquium
Feb 22, 2008 : NRAO Colloquium
Feb 21, 2008 : Dark Matter 08 Invited Talk
Feb 5, 2008 : Carnegie Observatories Colloquium
Sept 8, 2007 : IAU 246 Invited Review
Sept 4, 2007 : MPA talk
Feb 22, 2007 : Oklahoma State Univeristy Colloquium
Feb 9, 2007 : Princeton University Colloquium
Jan 1, 2007 : Texas Academy of Medicine, Engineering, Science & Technology Lecture
Oct 13, 2006 : City of Rochester OASIS Group Lecture
Sept 8, 2006 : University of Texas School of Architecture Lecture
Aug 18, 2006 : Invited Review at IAU, Prague
July 7, 2006 : MPE Garching Colloquium
June 8, 2006 : Goettingen University Colloquium
May 17, 2006 : Invited Reviews (2) at Cambridge Black Hole Conference
Apr 11, 2006 : Invited Review at the Mitchell Cosmology Symposium, Texas A&M
Mar 1, 2006 : Invited Review at Ringberg Castle
Feb 24, 2006 : Astrophysical Institut Potsdam Colloquium
Feb 7, 2006 : Oxford University Colloquium
Feb 2, 2006 : Leiden University Colloquium
Feb 1, 2006 : Nijmegen University Colloquium
Oct 27, 2005 : Munich Joint Astronomy Colloquium
Oct 10, 2005 : Invited Review at ESO 3D Symposium
Sept 1, 2005 : Astrophysical Institut Potsdam Talk
Dec 14, 2004 : Invited Review at the Texas Symposium at Stanford
Dec 9, 2004 : Texas Tech University Colloquium
Nov 18, 2004 : Cleveland Museum of Natural History Lecture Series
Nov 18, 2004 : Case Western University Colloquium
Aug 12, 2004 : SLAC Colloquium
July 27, 2004 : Leiden meeting on Black Hole Modeling talk
June 17, 2004 : Aspen Center for Physics Colloquium
May 26, 2004 : Invited Review at Gemini Worskhop (Vancouver)
May 21, 2004 : Invited Review at Center for Gravitation Wave Physics (Penn State)
March 12, 2004 : UC Santa Cruz Colloquium
Nov 11, 2003 : Carnegie (Pasadena) Colloquium
Oct 31, 2003 : LIGO Group (Caltech) Colloquium
Oct 20, 2003 : Invited Review at Center for Gravitation Wave Physics (Penn State)
Aug 18-22, 2003 : Invited Review at ETH (Zurich) Galaxy Evolution Meeting
June 27-28, 2003 : Panel member for Gemini Observatory Workshop (Aspen)
May 5, 2003 : Space Telescope Symposium, Invited Review

April 16, 2003 : UCLA Colloquium
April 7, 2003 : Canadian Institute for Theoretical Astrophysics Colloquium
March 26, 2003 : Lakeway Club Lecture Series
March 12, 2003 : Columbia Colloquium
March 11, 2003 : Princeton Colloquium
March 4, 2003 : Morrison Planetarium, Benjamin Dean Lecture (San Francisco)
Jan 29, 2003 : UC Santa Cruz Colloquium
Jan 27-31, 2003 : Invited Talk at Globular Cluster Meeting at UCSB/ITP
Dec 20, 2002 : Max-Planck-Institute Colloquium (Garching)
Nov 6, 2002 : Caltech Colloquium
Oct 31, 2002 : Invited Talk at Tex-Mex Conference in Mexico City
Oct 12-25, 2002 : Invited Review at Carnegie Black Hole Meeting
Sept, 2002 : Space Science Update on Black Holes in Globulars
Aug 22, 2002 : Invited Review at SPIE meeting in Hawaii
Feb 25-28, 2002 : Conference Organizer/Review “Black Holes” at UCSB/ITP
Jan 18, 2002 : University of New Mexico Colloquium
Jan 17, 2002 : University of Arizona Colloquium
Aug 20, 2001 : Kapetyn Institute Colloquium
Aug 13-16, 2001 : Conference Organizer/Review “Omega Cen” at Cambridge
June, 2001 : American Astronomical Society Invited Talk
March, 2001 : Rice University Colloquium
Feb, 2001 : Trinity College Colloquium
Jan, 2001 : University of California, Berkeley Colloquium
Dec, 2000 : Texas Symposium (2000), Invited Review
Feb, 2000 : University of Delaware Colloquium
Feb, 2000 : University of Texas Colloquium
Jan, 2000 : Harvard University Colloquium
Aug, 1999 : ESO, invited review talk BH99 meeting
May, 1999 : ESO, Garching, Germany Colloquium
May, 1999 : Universitaets-Sternwarte Munich Colloquium
May, 1999 : ARI, Heidelberg, Germany Colloquium
Jan, 1999 : University of Michigan Colloquium
Sept, 1998 : University of Washington Colloquium
Sept, 1998 : Dominion Astrophysical Observatory Colloquium
Sept, 1998 : University of British Columbia Colloquium
Oct, 1995 : University of Geneva, Switzerland Colloquium
May, 1995 : Michigan State University Colloquium