

**CONTACT INFORMATION**

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**APPOINTMENTS**

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**Johns Hopkins University**, Baltimore, MD

Associate Professor, Dept. of Physics and Astronomy, July 2017 - present  
Assistant Professor, Dept. of Physics and Astronomy, Aug 2010 - June 2017  
Between Aug 2010 and July 2011 on leave at:

**KIPAC (SLAC/Stanford University)**, Menlo Park, CA

Research Associate (Kavli Fellowship), Aug 2010 - July 2011

**Institute for Advanced Study**, Princeton, NJ

Long-term member (John N. Bahcall fellowship), Jan 2008 - July 2010  
Postdoctoral member (NASA Spitzer fellowship), Sept 2005 - Aug 2008

**EDUCATION**

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**Princeton University**, Ph.D., Astrophysics, Aug 2001 - Sept 2005

Advisor: Michael A. Strauss

**Moscow Institute of Physics and Technology (MIPT)**

M.Sci. with honor, GPA=4.0/4.0, theoretical physics and astrophysics, Sept 1999 - June 2001

**Moscow Institute of Physics and Technology (MIPT)**

B.Sci. with honor, GPA=4.0/4.0, physics & mathematics, Sept 1995 - June 1999

**SELECTED AWARDS**

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Catalyst Award (2016; Johns Hopkins University)  
D. Lunder and A. Ezekowitz Junior Visiting Professor (2016; Institute for Advanced Study)  
Newton Lacy Pierce Prize of the American Astronomical Society (2014)  
Alfred P. Sloan fellowship (2011-2013; national junior faculty fellowship)  
Kavli postdoctoral fellowship (2010-2011; fellowship at Stanford University)  
John N. Bahcall long-term fellowship (2008-2010; fellowship at the Institute for Advanced Study)  
NASA Spitzer postdoctoral fellowship (2005-2008; national fellowship)  
NASA Hubble postdoctoral fellowship (2005, declined; national fellowship)  
Charlotte Elizabeth Procter Graduate Fellowship (2004-2005, Princeton University)  
Gold Medal of MIPT (awarded to 10 graduates of class of 500 people, 2001, MIPT)

Presidential and other fellowships (1997-2000, MIPT)

## RESEARCH GROUP AT JHU

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Ai-Lei Sun – postdoc (2017 – present)

Kirsten Hall (2014 – present) – 4th year graduate student, GBO passed 10/2016 (co-advised with T. Marriage)

Hsiang-Chih Hwang (2016 – present) – 2nd year graduate student

Zhicheng He (2017 – present) – visiting graduate student from USTC

Ross Dempsey (2017 – present) – undergraduate research advisee

### Previous members of the research group

Dominika Wylezalek – postdoc (2014 – 2017), Akbari-Mack Fellow (2015), Provost Fellow (2016) [now at the European Southern Observatory, Germany with a Prize Postdoctoral Fellowship], four refereed publications, several more in prep.

Rachael Alexandroff (2012 – 2017) – graduate student, Ph.D. July 2017 [now at the University of Toronto with the National Postdoctoral Fellowship of Canada], three chapters published, one more in prep.

Erini Lambrides (2015 – 2017) – graduate student, paper in prep.

Asa Stahl (2015 – 2017) – undergraduate research advisee, Provost’s Undergraduate Research Award, paper in prep. [now grad student at Rice]

Joseph Cleary (2013 - 2016) – undergraduate and graduate research advisee, 2016 Kerr Memorial Prize [now graduate student at JHU], co-author of two papers based on his project

Michael Kelly (2015 - 2016) – undergraduate research advisee (co-advised with D. Wylezalek), Provost’s Undergraduate Research Award, Master’s thesis, paper in prep. [now at Applied Physics Laboratory]

Georges Obied (2014 - 2015) – undergraduate research advisee, Provost’s Undergraduate Research Award, two refereed publications, Master’s thesis, 2015 Kerr Memorial Prize [now graduate student at Harvard]

Kelly Lampayan (2013 - 2015) – undergraduate research advisee, Dean’s Undergraduate Research Award, one refereed publication, 2015 Kerr Memorial Prize [now at Applied Physics Laboratory]

Peranat Dayananda (2013 - 2015) – undergraduate research advisee [now at AWR Lloyd Consulting, graduate student in computer science at Brown]

Guilin Liu – postdoc (2011 – 2014) [now faculty at University of Science and Technology of China], three refereed publications

Matthew Hill (2012 - 2014) – undergraduate research advisee, Provost’s and Dean’s Undergraduate Research Awards, one refereed publication [now staff member at STScI]

Several other undergraduate and graduate research advisees on semester-long projects

Prior to JHU, supervised graduate students Xin Liu, Reinabelle Reyes, Laura Gómez and Joshua Green on pre-thesis projects (three refereed publications)

## TEACHING

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JHU, Fall 2017, undergraduate: Special Relativity / Waves, 24 students; submitted a laboratory for Special Relativity to American Journal of Physics

JHU, Spring 2017, graduate: Astrophysical Dynamics, 11 students

JHU, Fall 2016, undergraduate: Special Relativity / Waves, 28 students

JHU, Fall 2015, undergraduate: Special Relativity / Waves, 30 students; textbook for Special Relativity: <http://arxiv.org/abs/1511.02121>

JHU, Fall 2014, undergraduate: Special Relativity / Waves, 32 students  
University of Copenhagen, Denmark, May 2014, graduate: From light to dark: the growing phase of supermassive black holes, co-taught with Sebastian Hoenig and Omer Blaes, 16 students  
JHU, Fall 2013, undergraduate: Special Relativity / Waves, 29 students  
JHU, Spring 2013, graduate: Astrophysical Dynamics, 8 students  
JHU, Fall 2012, undergraduate: Special Relativity / Waves; new lab development; 35 students  
JHU, Spring 2012, graduate: Galactic Structure and Stellar Dynamics, co-taught with Brice Menard, 12 students  
JHU, Fall 2011, graduate: Observational Astronomy, co-taught with Brice Menard, 10 students  
Moscow 1995-2000: English as a foreign language; Physics, Mathematics, group classes and tutoring for high school students; up to 20 hours a week, 10 semesters, at MIPT Correspondence School and PhysTech College

### **PROFESSIONAL SERVICE AND OUTREACH**

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Referee for Science, Nature, Cambridge University Press, A&A, AJ, ApJ, MNRAS, 2004-present  
Review panels: fifteen panels, including three chaired, 2008-present  
Frequent user of ground-based and space-based observing facilities and archival datasets, surveys: SDSS-I,II,III,IV, Subaru-PFS; SDSS-III Collaboration Council Representative from JHU (2011-2015); SDSS Collaboration meeting, organizing committee 06/2013 – 120 participants  
JHU Physics Fair volunteer, 2013  
BEST project mentor: supervised research internship of high-school physics teacher, summer 2012, 2013  
Member, American Astronomical Society, 2002-present; volunteer at the Jan 2011 meeting / Doxsey, Chambliss awards judge; Member, International Astronomical Union, 2015-present.  
Led public observing sessions at Princeton University, 2002  
Created and maintained the graduate students' webpage of the Department of Astrophysical Sciences, Princeton University, 2003-2005  
Member of the undergraduate admissions committee, Department of General and Applied Physics, Moscow Institute of Physics and Technology, 1997-2000  
Member of the Russian National Physics Olympiad jury, 1996-1999

### **MEDIA HIGHLIGHTS**

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“Do extremely reddened quasars extinguish star formation?”, 11/2016,  
[https://www.eurekalert.org/pub\\_releases/2016-11/uoc--der111516.php](https://www.eurekalert.org/pub_releases/2016-11/uoc--der111516.php)  
“Study finding first observed evidence of galactic-wind phenomenon”, 03/2016,  
<https://www.sciencedaily.com/releases/2016/03/160323115925.htm?>  
“Nadia L. Zakamska wins the 2014 Newton Lacy Pierce Prize of the American Astronomical Society”,  
01/2014,  
<http://aas.org/media/press-releases/aas-announces-2014-award-recipients>  
“SDSS reveals hidden population of powerful black holes”, 04/2008,  
<http://www.philstar.com/starweek-magazine/55664/asking-questions-finding-answers>

### **DEPARTMENT AND UNIVERSITY SERVICE**

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Undergraduate research internships: summer 2017, four undergraduates, three postdoctoral advisors; obtained external funding and oversaw scientific and mentoring activities, website: <http://sites.krieger.jhu.edu/jhu-care>

Recruitment committee: 2011 – present, including as Chair and co-Chair since fall 2012. Organized graduate and undergraduate open houses; developed promotional materials for the undergraduate and the graduate program; organized JHU graduate program booths at physics and astronomy conferences; wrote the contents for the website of the Department of Physics and Astronomy.

Chair of the Davis Postdoctoral Fellowship committee (Fall 2015 - present), led review of ~300 applications; routinely interviewed postdoctoral applicants for the department starting in 2011.

Graduate program committee: 2011 – present (starting in Jan 2018 as Chair). Helped re-develop graduate program and graduate curriculum to put more emphasis on early research; the new program was approved by faculty and went into effect in May 2012.

Graduate examination service (GBOs, prelims, Master’s research exams): 12 students; thesis committees and thesis defenses: 7 meetings; wrote, administered and graded a written graduate examination for 25 students in 01/2012; graded 13 written graduate examinations 08/2015; evaluated 8 research examinations 10/2015, and as Chair of the research exam committee organized all research examinations in Fall 2016 and Fall 2017 and personally evaluated 10 and 11 respectively.

JHU representative in the SDSS-III Collaboration Council (01/2012 – 12/2015); member of SDSS collaboration meeting organizing committee (summer 2013); organizing committee for JHU / STScI winter colloquia (fall 2011).

## **INVITED PRESENTATIONS**

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### **Invited seminars and colloquia:**

Virginia Tech (Blacksburg, VA, 04/2018);  
Northwestern University (Chicago, IL, 02/2017);  
University of Virginia and NRAO (Charlottesville, VA, 12/2016);  
University of Colorado (Boulder, CO, 11/2016);  
MIT (Cambridge, MA, 11/2016);  
Columbia University (New York City, NY, 10/2016);  
Michigan State University (East Lansing, MI, 10/2016);  
Princeton University (Princeton, NJ, 02/2016);  
Stanford University (Menlo Park, CA, 04/2015);  
Purdue University (West Lafayette, IN, 03/2015);  
Pennsylvania State University (State College, PA, 01/2015);  
Space Telescope Science Institute (Baltimore, MD, 01/2015);  
Canadian Institute for Theoretical Astrophysics (Toronto, Canada, 10/2014);  
Johns Hopkins University (Baltimore, MD, 03/2014);  
Goddard Space Flight Center (Greenbelt, MD, 11/2012);  
University of Maryland (College Park, MD, 03/2012);  
Harvard-Smithsonian Center for Astrophysics (Cambridge, MA, 12/2011);  
Yale Center for Astronomy and Astrophysics (New Haven, CT, 12/2011);  
Institute for Advanced Study (Princeton, NJ, 04/2011);  
Ohio State University (Columbus, OH, 03/2011);  
University of Hawaii (Honolulu, HI, 12/2010);  
Gemini Observatory (Hilo, HI, 12/2010);  
Stanford University (Menlo Park, CA, 12/2010);

UC Berkeley (Berkeley, CA, 12/2010);  
New York University (New York, NY, 02/2010);  
Johns Hopkins University (Baltimore, MD, 02/2010);  
University of Arizona (Tucson, AZ, 02/2010);  
University of Chicago (Chicago, IL, 01/2010);  
University of Pittsburgh (Pittsburgh, PA, 01/2010);  
Columbia (New York, NY, 11/2009);  
New York University (New York, NY, 10/2009);  
Institute for Advanced Study (Princeton, NJ, 03/2009, 04/2009);  
Caltech (Pasadena, CA, 01/2009);  
MIT (Cambridge, MA, 01/2008);  
CITA (Toronto, Canada, 01/2008);  
Johns Hopkins University (Baltimore, MD, 10/2007);  
University of Wisconsin (Madison, WI, 09/2007);  
University of Arizona (Tucson, AZ, 04/2007) [visiting as Douglass Scholar];  
MPA/MPE (Garching, Germany, 06/2006);  
UC Berkeley (Berkeley, CA, 11/2005);  
MIT (Cambridge, MA, 03/2005)

**Invited conference presentations and reviews:**

Invited talk at “Multiphase AGN feeding & feedback”, Sesto, Italy, 07/2018;  
Invited review at “Massive black holes in evolving galaxies”, IAP, Paris, France, 06/2018;  
Invited talk at “Observations and theory of quasar outflows”, Leiden, Netherlands, 03/2017;  
Invited talk at “An interplay between local and global processes in galaxies”, Cozumel, Mexico, 04/2016;  
Invited talk at “A 3D view on galaxy evolution”, Heidelberg, Germany, 07/2015;  
Invited talk at “Science and Future of Gemini”, Toronto, ON, 06/2015;  
Invited review “WISE quasars” at WISE 5-year anniversary meeting, Pasadena, CA, 02/2015;  
Invited participant, National Academy of Sciences, Kavli Frontiers of Science, Irvine, CA, 11/2014;  
Invited talk “Observations of ionized gas outflows” at “Quenching and Quiescence”, Heidelberg, Germany, 07/2014;  
Plenary talk at DC/MD/VA Astronomy Conference for young scientists, Washington, DC, 07/2014;  
Invited talk “Feedback in obscured quasars” at “Powerful AGN”, Port Douglas, QLD, Australia, 06/2014;  
Plenary talk / Newton Lacy Pierce prize lecture at the American Astronomical Society Meeting, Boston, MA, 06/2014;  
Invited participant, Astrophysics Workshop, Calistoga, CA, 04/2014  
Invited talk “Observations of feedback in radio-quiet quasars” at mini-workshop “AGN feedback”, JHU, 11/2013;  
Invited talk “Quasar feedback” at “Illuminating the galaxy-AGN connection”, Ringberg Castle, Germany, 12/2012;  
Invited talk “Quasar feedback” at “Gas, stars and black holes in the galaxy ecosystem”, Leiden, Netherlands, 07/2012;  
Invited talk “Identification of AGN in optical surveys” at “Obscured AGN across cosmic time”, Seon, Germany, 06/2007;  
Invited talk “Type 2 quasars” at special session “Multi-wavelength Astronomy and the SDSS” of the 204th American Astronomical Society Meeting, Denver, CO, 05/2004;  
co-author of an invited review talk with S. Tremaine “Extrasolar planet orbits and eccentricities” at

“The Search for Other Worlds”, College Park, MD, 10/2003

**Invited public talks:**

“The quest for other worlds”, private event by the Director of the Institute for Advanced Study, Princeton, NJ, 04/2016;

“The New Era of Gravitational Wave Astronomy”, public discussion, panel member, Institute for Advanced Study, Princeton, NJ, 02/2016;

“Women serious about science”, Baltimore Polytechnic Institute (magnet science high school), Baltimore, MD, 12/2014;

“Black hole winds”, Society of Physics Students, JHU, Baltimore, MD, 10/2013;

“Gone with the wind: black holes and their gusty influence on the birth of galaxies”, Institute for Advanced Study, Princeton, NJ, 05/2013;

“Black holes: seeing the invisible”, Chicago, IL, 05/2007;

“The search for other worlds”, Institute for Advanced Study, Princeton, NJ, 10/2006

**CURRENT PROJECTS**

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Winds launched by processes near supermassive black holes play a key role in galaxy evolution, but have long evaded direct detection. In the last few years, our group has discovered quasar winds through multiple techniques, and I am conducting a comprehensive observational study of this phenomenon using ground-based and space-based telescopes. We are observing and modeling quasar-driven winds in the nearby universe to characterize their physical conditions and energetics. Furthermore, we are uncovering evidence of extreme quasar feedback at the epoch of peak galaxy formation and exploring the impact they had on the formation of the massive galaxies.

Furthermore, our group is pursuing a wide range of theoretical and observational projects in Galactic astronomy and exo-planets.

## PUBLICATIONS

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*h*-index: 34 (Astrophysics Data System), 33 (Google Scholar)

Asterisk marks students and postdocs under my direct supervision; two asterisks if co-advised.

### Refereed publications:

78. \*\*Lambrides E. L., Petric A. O., Tchernyshyov K., Zakamska N. L., Watts D. J.:  
[Warm molecular gas and dust in active galaxies](#),  
*Monthly Notices of the Royal Astronomical Society*, submitted (2017),  
<http://zakamska.johnshopkins.edu/PAPERS/>
77. \*Dempsey R., Zakamska N. L.:  
[The Size-Luminosity Relationship of Quasar Narrow-Line Regions](#),  
*Monthly Notices of the Royal Astronomical Society*, submitted (2017),  
<http://zakamska.johnshopkins.edu/PAPERS/>
76. Goulding A. D., Zakamska N. L., \*Alexandroff R. M., Assef R. J., Banerji M., Hamann F., \*Wylezalek D., Brandt W. N., Greene J. E., Lansbury G. B., Pâris I., Richards G., Stern D., Strauss M. A.:  
[High redshift extremely red quasars in X-rays](#),  
*Astrophysical Journal*, submitted (2017),  
<http://zakamska.johnshopkins.edu/PAPERS/>
75. Abolfathi B. et al. (SDSS collaboration, over 300 co-authors in alphabetical order):  
[The fourteenth data release of the Sloan Digital Sky Survey](#),  
*Astrophysical Journal Supplementary Series*, submitted (2017),  
<https://arxiv.org/abs/1707.09322>
74. \*Hwang H.-C., Zakamska N. L., \*Alexandroff R. M., Hamann F., Greene J.E., Perrotta S., Richards G. T.:  
[Winds as the origin of radio emission in  \$z = 2.5\$  radio-quiet extremely red quasars](#),  
*Monthly Notices of the Royal Astronomical Society*, submitted (2017),  
<http://zakamska.johnshopkins.edu/PAPERS/>
73. \*\*Qin W., Nataf D. M., Zakamska N. L., Wood P. R., Casagrande L.:  
[The Mira-based distance to the Galactic Center](#),  
*Monthly Notices of the Royal Astronomical Society*, submitted (2017),  
<http://zakamska.johnshopkins.edu/PAPERS/>
72. \*Alexandroff R. M., Zakamska N. L., Barth A., Hamann F., Strauss M. A., Krolik J., Greene J.E., Pâris I., Ross N. P.:  
[Spectropolarimetry of high redshift obscured and red quasars](#),  
*Monthly Notices of the Royal Astronomical Society*, submitted (2017),  
<http://zakamska.johnshopkins.edu/PAPERS/>
71. Zakamska N. L.:  
[Relativistic jets: an astrophysical laboratory for the Doppler effect](#),  
*American Journal of Physics*, accepted (2017),  
<http://zakamska.johnshopkins.edu/PAPERS/>

70. \*Wylezalek D., Zakamska N. L., Greene J. E., Riffel R. A., Andrews B. H., Merloni A., Thomas D., Yan R.:  
[SDSS-IV MaNGA: Identification of active galactic nuclei in optical integral field unit surveys](#),  
*Monthly Notices of the Royal Astronomical Society*, in press (2017),  
<https://arxiv.org/abs/1710.09389>
69. Albareti F. D. et al. (SDSS collaboration, over 300 co-authors in alphabetical order):  
[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](#),  
*Astrophysical Journal Supplementary Series*, 233, 25 (2017),  
<http://esoads.eso.org/abs/2017ApJS...233...25A>
68. Barrows R. S., Comerford J. M., Zakamska N. L., Cooper M. C.:  
[Observational constraints on correlated star formation and active galactic nuclei in late-stage galaxy mergers](#),  
*The Astrophysical Journal*, 850, 27 (2017),  
<http://esoads.eso.org/abs/2017ApJ...850...27B>
67. Hickox R. C., Myers A. D., Greene J. E., Hainline K. N., Zakamska N. L., DiPompeo M. A.:  
[Composite spectral energy distributions and infrared-optical colors of type 1 and type 2 quasars](#),  
*The Astrophysical Journal*, 849, 53 (2017),  
<http://esoads.eso.org/abs/2017ApJ...849...53H>
66. Pirzkal N., et al. (FIGS collaboration, 28 co-authors):  
[FIGS – Faint Infrared Grism Survey: Description and Data Reduction](#),  
*The Astrophysical Journal*, 846, 84 (2017),  
<http://esoads.eso.org/abs/2017ApJ...846...84P>
65. Zhu G. B., Barrera-Ballesteros J. K., Heckman T. M., Zakamska N. L., Yan R., Brinkmann J.:  
[A local leaky-box model for the local stellar surface density-gas surface density-gas phase metallicity relation](#),  
*Monthly Notices of the Royal Astronomical Society*, 468, 4494 (2017),  
<http://adsabs.harvard.edu/abs/2017MNRAS.468.4494Z>
64. Blanton M. R., Bershadsky M. A., et al. (SDSS collaboration – 351 co-authors in alphabetical order):  
[Sloan Digital Sky Survey IV: Mapping the Milky Way, Nearby Galaxies and the Distant Universe](#),  
*The Astronomical Journal*, 154, 28 (2017),  
<http://esoads.eso.org/abs/2017AJ....154...28B>
63. \*Wylezalek D., Schnorr Müller A., Zakamska N. L., Storchi-Bergmann T., Greene J. E., \*Kelly M., Liu G., Law D. R., Barrera-Ballesteros J. K., Riffel R. A.:  
[Zooming into local active galactic nuclei: The power of combining SDSS-IV MaNGA with higher resolution integral field unit observations](#),  
*Monthly Notices of the Royal Astronomical Society*, 467, 2612 (2017),  
<http://adsabs.harvard.edu/abs/2017MNRAS.467.2612W>
62. Pei L., et al. (STORM collaboration, ~140 collaborators):  
[Space telescope and optical reverberation mapping project. V. Optical spectroscopic campaign and emission-line analysis for NGC5548](#),  
*The Astrophysical Journal*, 837, 131 (2017),  
<http://adsabs.harvard.edu/abs/2017ApJ...837..131P>



61. Sun A.-L., Greene J. E., Zakamska, N. L.:  
[Sizes and kinematics of extended narrow-line regions in luminous obscured AGN selected by broadband images](#),  
*The Astrophysical Journal*, 835, 222 (2017)  
<http://adsabs.harvard.edu/abs/2017ApJ...835..222S>
60. Hamann F., Zakamska N. L., Ross N. P., Pâris I., \*Alexandroff R. M., Villforth C., Richards G. T., Herbst H., Brandt W. N., Cook B., Denney K. D., Greene J. E., Schneider D. P., Strauss M. A.:  
[Extremely Red Quasars in BOSS](#),  
*Monthly Notices of the Royal Astronomical Society*, 464, 3431 (2017)  
<http://adsabs.harvard.edu/abs/2017MNRAS.464.3431H>
59. \*Alexandroff R. M., Zakamska N. L., van Velzen S., Greene J. E., Strauss M. A.:  
[Sensitive Radio Survey of Obscured Quasar Candidates](#),  
*Monthly Notices of the Royal Astronomical Society*, 463, 3056 (2016)  
<http://adsabs.harvard.edu/abs/2016MNRAS.463.3056A>
58. Barrera-Ballesteros J. K., Heckman T. M., Zhu G., Zakamska N. L., Sánchez S. F., Law D., Greene J. E., Pan K., Bizyaev D., Oravetz D., Simmons A., Malanushenko E., Roman Lopes A.:  
[Do galaxy global relationships emerge from local ones? I. The SDSS IV MaNGA surface mass density – metallicity relation](#),  
*Monthly Notices of the Royal Astronomical Society*, 463, 2513 (2016)  
<http://adsabs.harvard.edu/abs/2016MNRAS.463.2513B>
57. \*\*Yuan S., Strauss M. A., Zakamska N. L.:  
[Spectroscopic identification of type 2 quasars at  \$z < 1\$  in SDSS-III/BOSS](#),  
*Monthly Notices of the Royal Astronomical Society*, 462, 1603 (2016)  
<http://adsabs.harvard.edu/abs/2016MNRAS.462.1603Y>
56. Tilvi V., Pirzkal N., Malhotra S., Finkelstein S. L., Rhoads J. E., Windhorst R., Grogin N. A., Koekemoer A., Zakamska N. L., Ryan R., Christensen L., Hathi N., Pharo J., Joshi B., Yang H., Gronwall C., Cimatti A., Walsh J., O’Connell R., Straughn A., Ostlin G., Rothberg B., Livermore R. C., Hiben P., Gardner J. P.:  
[First results from Faint Infrared Grism Survey: first simultaneous detection of Ly  \$\alpha\$  emission and Ly break from a galaxy at  \$z = 7.51\$](#) ,  
*The Astrophysical Journal*, 827, L14 (2016)  
<http://adsabs.harvard.edu/abs/2016ApJ...827L..14T>
55. \*Wylezalek D., Zakamska N. L.:  
[Evidence of suppression of star formation by quasar-driven winds in gas-rich host galaxies at  \$z < 1\$ ?](#)  
*Monthly Notices of the Royal Astronomical Society*, 461, 3724 (2016)  
<http://adsabs.harvard.edu/abs/2016MNRAS.461.3724W>
54. Timlin J. D., Ross N. P., Richards G. T., Lacy M., Ryan E. L., Stone R. B., Bauer F. E., Brandt W. N., Fan X., Jiang L., LaMassa S. M., Myers A. D., Schneider D. P., Wollack E. J., Zakamska N. L.:  
[SpIES: The Spitzer IRAC Equatorial Survey](#),  
*The Astrophysical Journal Supplement*, 225, 1 (2016)  
<http://adsabs.harvard.edu/abs/2016ApJS...225....1T>
53. Zakamska N. L., Hamann F., Pâris I., Brandt W. N., Greene J. E., Strauss M. A., Villforth C., \*Wylezalek D., \*Alexandroff R. M., Ross N. P.:

- Discovery of extreme [OIII]5007A outflows in high-redshift red quasars,  
*Monthly Notices of the Royal Astronomical Society*, 459, 3144 (2016)  
<http://adsabs.harvard.edu/abs/2016MNRAS.459.3144Z>
52. \*Wylezalek D., Zakamska N. L., \*Liu G., \*Obied G.:  
 Towards a comprehensive picture of powerful quasars, their host galaxies and quasar winds at  $z \sim 0.5$ ,  
*Monthly Notices of the Royal Astronomical Society*, 457, 745 (2016)  
<http://adsabs.harvard.edu/abs/2016MNRAS.457..745W>
51. \*Obied G., Zakamska N. L., \*Wylezalek D., \*Liu G.:  
 Giant scattering cones in obscured quasars,  
*Monthly Notices of the Royal Astronomical Society*, 456, 2861 (2016)  
<http://adsabs.harvard.edu/abs/2016MNRAS.456.2861O>
50. Stern J., Faucher-Giguère C.-A., Zakamska N. L., Hennawi J. F.:  
 Constraining the Dynamical Importance of Hot Gas and Radiation Pressure in Quasar Outflows  
 Using Emission Line Ratios,  
*The Astrophysical Journal*, 819, 130 (2016)  
<http://adsabs.harvard.edu/abs/2016ApJ...819..130S>
49. \*\*Crichton D., Gralla M. B., \*\*Hall K., Marriage T. A., Zakamska N. L., Battaglia N., Bond J. R.,  
 Devlin M. J., Hill J. C., Hilton M., Hincks A. D., Hufferberger K. M., Hughes J. P., Kosowsky A.,  
 Moodley K., Niemack M. D., Page L. A., Partridge B., Sievers J. L., Sifón C., Staggs S. T., Viero  
 M. P., Wollack E. J.:  
 Evidence for the Thermal Sunyaev-Zel'dovich Effect Associated with Quasar Feedback,  
*Monthly Notices of the Royal Astronomical Society*, 458, 1478 (2016)  
<http://adsabs.harvard.edu/abs/2016MNRAS.458.1478C>
48. Zakamska N. L., \*Lampayan K., Petric A., Dicken D., Greene J. E., Heckman T. M., Hickox R. C.,  
 Ho L. C., Krolik J. H., Nesvadba N. P. H., Strauss M. A., Geach J. E., Oguri M., Strateva I. V.:  
 Star formation in quasar hosts and the origin of radio emission in radio-quiet quasars,  
*Monthly Notices of the Royal Astronomical Society*, 455, 4191 (2016)  
<http://adsabs.harvard.edu/abs/2016MNRAS.455.4191Z>
47. Ross N. P., Hamann F., Zakamska N. L., Richards G. T., Villforth C., Strauss M. A., Greene J. E.,  
 \*Alexandrov R., Brandt W. N., \*Liu G., Myers A. D., Pâris I., Schneider D. P.:  
 Extremely red quasars from SDSS, BOSS and WISE: classification of optical spectra,  
*Monthly Notices of the Royal Astronomical Society*, 453, 3932 (2015)  
<http://adsabs.harvard.edu/abs/2015MNRAS.453.3932R>
46. Alam S., Albareti F. D., Allende Prieto C., et al. (SDSS collaboration, 274 authors in alphabetical  
 order):  
 The Eleventh and Twelfth Data Releases of the Sloan Digital Sky Survey: Final Data from SDSS-III,  
*The Astrophysical Journal Supplement Series*, 219, 12 (2015)  
<http://adsabs.harvard.edu/abs/2015ApJS...219...12A>
45. Comerford J. M., Pooley D., Barrows R. S., Greene J. E., Zakamska N. L., Madejski G. M., Cooper  
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