
CONTACT INFORMATION

Dpt of Physics and Astronomy	Tel.: (410)516-6657;
Johns Hopkins University	e-mail: zakamska[at]jhu.edu
366 Bloomberg Center, 3400 N. Charles St.	
Baltimore MD 21218	http://zakamska.johnshopkins.edu

APPOINTMENTS

Johns Hopkins University, Baltimore, MD

Associate Professor, Dept. of Physics and Astronomy, July 2017 - present

Assistant Professor, Dept. of Physics and Astronomy, Aug 2011 - June 2017

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

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

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

Dominika Wylezalek – postdoc (2014 – present), Akbari-Mack Fellow (2015), Provost Fellow (2016) [moving to a prize postdoctoral fellowship at the European Southern Observatory, Germany, in Fall 2017]
Guilin Liu – postdoc (2011 – 2014) [now faculty at University of Science and Technology of China]
Rachael Alexandroff (2012 – present) – 5th year graduate student, expected graduation summer 2017 [moving to the University of Toronto with the National Postdoctoral Fellowship of Canada in Fall 2017]
Kirsten Hall (2014 – present) – 3rd year graduate student, GBO passed 10/2016
Erini Lambrides (2015 – present) – 2nd year graduate student
Hsiang-Chih Hwang (2016 – present) – 1st year graduate student
Asa Stahl (2015 - present) – undergraduate research advisee
Joseph Cleary (2013 - 2017) – undergraduate and graduate research advisee, 2016 Kerr Memorial Prize [now graduate student at JHU]
Michael Kelly (2015 - 2016) – undergraduate research advisee, 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, incoming grad student in CS at Brown]
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

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 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

Referee for Science, 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

“Do extremely reddened quasars extinguish star formation?”, 11/2016,
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

Supervising Summer 2017 postdoc-led undergraduate research internships (four undergraduates, three postdocs), including obtaining external funding.
Recruitment committee: 2011 – present, including as Chair (fall 2012 – fall 2014, fall 2015, fall 2016 – present as co-Chair). 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 Physics and Astronomy website (2012 – present).
Chair of the Davis Postdoctoral Fellowship committee (Fall 2015, Fall 2016), led review of ~300 applications; routinely interviewed postdoctoral applicants for the department starting in 2011.
Graduate program committee: 2011 – present. 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 01/12; graded 13 written graduate examinations 08/2015; evaluated 8 research examinations 10/2015 and 10 research examinations 09/2016 as Chair of the research exam committee (Fall 2016). 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

Invited seminars and colloquia:

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 “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

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.

PUBLICATIONS

h-index: 32 (Astrophysics Data System), 31 (Google Scholar)

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

Refereed publications:

67. *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, submitted (2017),
<http://zakamska.johnshopkins.edu/PAPERS/>
66. Blanton, M. R., Bershad, 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, submitted (2017),
<http://adsabs.harvard.edu/abs/2017arXiv170300052B>
65. 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, submitted (2016),
<http://zakamska.johnshopkins.edu/PAPERS/>
64. Zhu G. B., Barrera-Ballesteros J. K., Heckman T. M., Zakamska N. L., Yan R., Brinkmann J.:
[A local fundamental relation for typical disk galaxies and its interpretation with a local leaky-box model](#),
Monthly Notices of the Royal Astronomical Society, in press (2017)
<http://adsabs.harvard.edu/abs/2017arXiv170100003Z>
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., Huffenberger 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., *Alexandroff 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 M. C.:
[Merger-driven Fueling of Active Galactic Nuclei: Six Dual and Offset AGNs Discovered with Chandra and Hubble Space Telescope Observations](#),
The Astrophysical Journal, 806, 219 (2015)
<http://adsabs.harvard.edu/abs/2015ApJ...806..219C>
44. Cai Z., Fan X., Noterdaeme P., Wang R., McGreer I., Carithers B., Bian F., Miralda-Escudé J., Finley H., Pâris I., Schneider D. P., Zakamska N. L., Ge J., Petitjean P., Slosar A.:
[A Glimpse at Quasar Host Galaxy Far-UV Emission Using Damped Ly \$\alpha\$'s as Natural Coronagraphs](#),

- The Astrophysical Journal*, 793, 139 (2014)
<http://adsabs.harvard.edu/abs/2014ApJ...793..139C>
43. *Liu G., Zakamska N. L., Greene J. E.:
[Similarity of ionized gas nebulae around unobscured and obscured quasars](#),
Monthly Notices of the Royal Astronomical Society, 442, 1303 (2014)
<http://adsabs.harvard.edu/abs/2014MNRAS.442.1303L>
42. Sun A.-L., Greene J. E., Zakamska N. L., Nesvadba N. P. H.:
[ALMA Observations of a Candidate Molecular Outflow in an Obscured Quasar](#),
The Astrophysical Journal, 790, 160 (2014)
<http://adsabs.harvard.edu/abs/2014ApJ...790..160S>
41. Zakamska N. L., Greene J. E.:
[Quasar feedback and the origin of radio emission in radio-quiet quasars](#),
Monthly Notices of the Royal Astronomical Society, 442, 784 (2014)
<http://adsabs.harvard.edu/abs/2014MNRAS.442..784Z>
40. Greene J. E., Alexandroff R., Strauss M. A., Zakamska N. L., Lang D., *Liu G., Pattarakijwanich P., Hamann F., Ross N. P., Myers A. D., Brandt W. N., York D., Schneider D. P.:
[Near-infrared Spectra and Intrinsic Luminosities of Candidate Type II Quasars at \$2 < z < 3.4\$](#) ,
The Astrophysical Journal, 788, 91 (2014)
<http://adsabs.harvard.edu/abs/2014ApJ...788...91G>
39. Greene J. E., Pooley D., Zakamska N. L., Comerford J. M., Sun A.-L.:
[Extended X-Ray Emission from a Quasar-driven Superbubble](#),
The Astrophysical Journal, 788, 54 (2014)
<http://adsabs.harvard.edu/abs/2014ApJ...788...54G>
38. Hainline K. N., Hickox R. C., Greene J. E., Myers A. D., Zakamska N. L., *Liu G., *Liu X.:
[Gemini Long-slit Observations of Luminous Obscured Quasars: Further Evidence for an Upper Limit on the Size of the Narrow-line Region](#),
The Astrophysical Journal, 787, 65 (2014)
<http://adsabs.harvard.edu/abs/2014ApJ...787...65H>
37. *Hill M. J., Zakamska N. L.:
[Warm molecular hydrogen in outflows from ultraluminous infrared Galaxies](#),
Monthly Notices of the Royal Astronomical Society, 439, 2701 (2014)
<http://adsabs.harvard.edu/abs/2014MNRAS.439.2701H>
36. *Liu G., Zakamska N. L., Greene J. E., Nesvadba N. P. H., Liu X.:
[Observations of feedback from radio-quiet quasars - II. Kinematics of ionized gas nebulae](#),
Monthly Notices of the Royal Astronomical Society, 436, 2576 (2013)
<http://adsabs.harvard.edu/abs/2013MNRAS.436.2576L>
35. Alexandroff R., Strauss M. A., Greene J. E., Zakamska N. L., Ross N. P., Brandt W. N., *Liu G., Smith P. S., Ge J., Hamann F., Myers A. D., Petitjean P., Schneider D. P., Yesuf H., York D. G.:
[Candidate type II quasars at \$2 < z < 4.3\$ in the Sloan Digital Sky Survey III](#),
Monthly Notices of the Royal Astronomical Society, 435, 3306 (2013)
<http://adsabs.harvard.edu/abs/2013MNRAS.435.3306A>

34. Jia J., Ptak A., Heckman T., Zakamska N. L.:
[An Archival Chandra and XMM-Newton Survey of Type 2 Quasars](#),
The Astrophysical Journal, 777, 27 (2013)
<http://adsabs.harvard.edu/abs/2013ApJ...777...27J>
33. Hainline K. N., Hickox R., Greene J. E., Myers A. D., Zakamska N. L.:
[SALT Long-slit Spectroscopy of Luminous Obscured Quasars: An Upper Limit on the Size of the Narrow-line Region?](#),
The Astrophysical Journal, 774, 145 (2013)
<http://adsabs.harvard.edu/abs/2013ApJ...774..145H>
32. *Liu G., Zakamska N. L., Greene J. E., Nesvadba N. P. H., Liu X.:
[Observations of feedback from radio-quiet quasars - I. Extents and morphologies of ionized gas nebulae](#),
Monthly Notices of the Royal Astronomical Society, 430, 2327 (2013)
<http://adsabs.harvard.edu/abs/2013MNRAS.430.2327L>
31. Greene J. E., Zakamska N. L., Smith P. S.:
[A Spectacular Outflow in an Obscured Quasar](#),
The Astrophysical Journal, 746, 86 (2012)
<http://adsabs.harvard.edu/abs/2012ApJ...746...86G>
30. Greene J. E., Zakamska N. L., Ho L. C., Barth A. J.:
[Feedback in Luminous Obscured Quasars](#),
The Astrophysical Journal, 732, 9 (2011)
<http://adsabs.harvard.edu/abs/2011ApJ...732....9G>
29. Zakamska N. L., Pan M., Ford E. B.:
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