
CONTACT INFORMATION

Dpt of Physics and Astronomy
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APPOINTMENTS

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

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

Scialog Fellow (2018; Research Corporation for Science Advancement and Heising-Simons Foundation)
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

Andrey Vayner (2019 – present) – Postdoctoral researcher, Ph.D. from USC in 2019
Hsiang-Chih Hwang (2016 – present) – 5th year graduate student; GBO passed 10/2018; five refereed publications, more in prep.; expected graduation June 2021
Yuzo Ishikawa (2019 – present) – 2nd year graduate student; research rotation; one paper submitted
Vedant Chandra, Evan Petrosky (2018 – present) – undergraduate research advisees; two papers, more in prep.
Closely collaborating with Center for Astrophysical Sciences (CAS) postdoc David Nataf

Previous members of the research group (if over two semesters or common papers)

Postdoctoral researchers and senior personnel

Caroline Huang (2019 – 2020) – Postdoctoral researcher, Ph.D. from JHU in 2019 [now postdoc at Harvard / SAO]
Rogemar Riffel (2019 – 2020) – sabbatical research scientist visiting from Brazil, multiple publications
Ai-Lei Sun – postdoc (2017 – 2018) [now in commercial data science]; three refereed publications during her time at JHU
Dominika Wylezalek – postdoc (2014 – 2017), Akbari-Mack Fellow (2015), Provost Fellow (2016) [ESO fellow, then a group leader in U Heidelberg since 2020], five refereed publications, continuing collaboration
Guilin Liu – postdoc (2011 – 2014) [now faculty at University of Science and Technology of China], three refereed publications
Collaborated with CAS postdocs Kate Rowlands [now faculty at STScI], Jorge Barrera-Ballesteros [now faculty in Mexico], and Guangtun Zhu [now in finance]

Graduate students:

Carlos Anicetti (2019 – 2020) – research rotation
Kirsten Hall (2014 – 2020) – co-advised with T. Marriage, Ph.D. July 2020, two refereed publications, more in prep. [now SMA Fellow and Schmidt Fellow at Harvard]
Zhicheng He (2017 – 2018) – visiting graduate student from USTC; one refereed publication [moving to a faculty position in China in 2020]
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
Erini Lambrides (2015 – 2017) – graduate student on research rotation, one refereed publication
Joseph Cleary (2013 - 2016) – undergraduate and graduate research rotations, 2016 Kerr Memorial Prize [now graduate student at JHU in another group], co-author of two papers

Undergraduate students:

Ross Dempsey, undergraduate + Masters + post-Masters student, 2017 - 2019, two papers [2019 Kerr Memorial Prize; now graduate student in Princeton]
Sandy Yuan (spring 2016) – co-advised with M. Strauss in Princeton, one paper [now graduate student in Harvard]
Asa Stahl (2015 – 2017) – undergraduate research advisee, Provost's Undergraduate Research Award [now graduate student at Rice]
Michael Kelly (2015 - 2016) – undergraduate research advisee (co-advised with D. Wylezalek), Provost's Undergraduate Research Award, Master's thesis, co-author of two papers based on his project [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 [after graduation at AWR Lloyd Consulting, now graduate student in computer science at Brown]
Matthew Hill (2012 - 2014) – undergraduate research advisee, Provost’s and Dean’s Undergraduate Research Awards, one refereed publication [M.A. from Yale; now in public health management]

Summer internships (unless already listed above): <http://sites.krieger.jhu.edu/jhu-care/>
2020: Brandon Stride, Carsten Langholm, Devon Williams, Felix Yu, Gavin Fezenko, John Magardino, Kyle Schneider, Mansha Kapur, Matt Kleiman (co-advised by Vedant Chandra, Hsiang-Chih Hwang, David Nataf, Caroline Huang)
2019: Shuchen Zhang (primary supervisor: Hsiang-Chih Hwang).
2018: Katherine Xiang (primary supervisor: Dr. Nataf) [now graduate student at Harvard] – one paper
2017: Channa Luke, Anthony Flores [now graduate student at Stanford] (primary supervisor: Dr. Wylezalek), Wenzer Qin (primary supervisor: Dr. Nataf) [2019 Kerr Memorial Prize; 2019 APS Leroy Apker shortlist; now graduate student at MIT], Xuanyi Wu (primary supervisor: Dr. Rowlands) – two papers

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

TEACHING

JHU, Fall 2020, undergraduate: AS.171.201/207 Special Relativity / Waves, 45 students
JHU, Spring 2020, graduate (elective): AS.171.618 Observational Astronomy, 8 students plus informal audits
JHU, Fall 2019, graduate (core): AS.171.603 Electromagnetic Theory, 21 students
JHU, Spring 2018, graduate (core): AS.171.627 Astrophysical Dynamics, 8 students
JHU, Fall 2017, undergraduate: AS.171.201/207 Special Relativity / Waves, 24 students; published a laboratory for Special Relativity to American Journal of Physics: <https://aapt.scitacion.org/doi/10.1119/1.5022796>
JHU, Spring 2017, graduate (core): AS.171.627 Astrophysical Dynamics, 11 students
JHU, Fall 2016, undergraduate: AS.171.201/207 Special Relativity / Waves, 28 students
JHU, Fall 2015, undergraduate: AS.171.201/207 Special Relativity / Waves, 30 students; textbook for Special Relativity: <http://arxiv.org/abs/1511.02121>
JHU, Fall 2014, undergraduate: AS.171.201/207 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: AS.171.201/207 Special Relativity / Waves, 29 students
JHU, Spring 2013, graduate (core): AS.171.627 Astrophysical Dynamics, 8 students
JHU, Fall 2012, undergraduate: AS.171.201/207 Special Relativity / Waves; 35 students; developed a new laboratory component for the class
JHU, Spring 2012, graduate: AS.171.715 Galactic Structure and Stellar Dynamics, co-taught with Brice Menard, 12 students
JHU, Fall 2011, graduate: AS.171.618 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

Referee for Science, Nature, Nature Astronomy, Cambridge University Press, A&A, AJ, ApJ, MNRAS, 2004-present
Review panels: sixteen 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

“Paradoxically, white dwarf stars shrink as they gain mass”, 08/2020,
<https://www.sciencenews.org/article/white-dwarf-stars-shrink-size-gain-mass>
“Johns Hopkins astrophysicists observe long-theorized quantum phenomena”, 08/2020.
<https://hub.jhu.edu/2020/07/30/astrophysicists-observe-gravitational-redshift-effect/>
“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

Director of graduate studies for the department of Physics and Astronomy, ~110 students. Graduate program committee: 09/2011 – present, Chair since 01/2018. 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. The median duration of the PhD decreased by ~1.5 years over the last ~10 years.

Graduate examination service (GBOs, prelims, Master's research exams): 18 students; thesis defenses: 12; thesis committees: 7 students; 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, 2017 and 2018, and personally evaluated 10, 11 and 12 respectively.

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

Recruitment committee: 2011 – 2017, including as Chair and 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 website of the Department of Physics and Astronomy.

Undergraduate research internships: summers 2017-2020, eighteen undergraduates, seven postdoctoral, graduate and undergraduate co-advisors; obtained external funding and oversaw scientific and mentoring activities, website: <http://sites.krieger.jhu.edu/jhu-care>

Faculty search committee, 2017 – 2018

Astrophysics representative to the TIPAC committee, 07/2015 – 08/2018

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:

Johns Hopkins University (Baltimore, MD, 10/2020);
Charles University (Prague, Czech Republic, 04/2019);
ESO / MPA / MPE / USM (Garching, Germany, 04/2019);
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 “Cosmic evolution of quasars”, Peking, China, 10/2019;
Invited participant at “Scialog: time domain astrophysics”, Tucson, AZ, 05/2019;
Invited review at “Breaking the limits: Super-Eddington accretion”, Sardinia, Italy, 10/2018;
Invited review at “Are AGN special?”, Durham, England, 08/2018;
Invited talk at “Multiphase AGN feeding & feedback”, Sesto, Italy, 07/2018;
Invited talk at “Unsolved Problems in Astrophysics and Cosmology”, Budapest, Hungary, 07/2018;
Invited review at “Massive black holes in evolving galaxies”, IAP, Paris, France, 06/2018;
Invited participant at “Scialog: time domain astrophysics”, Tucson, AZ, 05/2018;
Invited review at “The radio and X-ray connection in accreting objects”, Monopoli, Italy, 05/2018;
Invited talk at SpaceAtHopkins Symposium at Johns Hopkins (Baltimore, MD, 04/2018);
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

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.

With the recent discovery of gravitational waves from neutron star and black hole mergers and with upcoming large time-variability surveys like Legacy Survey of Space and Time (LSST), the exploration of the variable universe is the emerging frontier of astrophysics. Our group is pursuing a wide range of theoretical and observational projects in Galactic astronomy to take advantage of the discovery space of variability surveys, from identifying exotic products of stellar evolution to probing planet formation.

PUBLICATIONS

h-index: 41 (Astrophysics Data System)

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

Refereed publications:

110. Riffel R.A., Storchi-Bergmann T., Riffel R., Bianchin M., Zakamska N.L., Ruschel-Dutra D., Schönell A.J., Rosario D.J., Rodriguez-Ardila A., Fischer T.C., Davies R.I., Dametto N.Z., Dahmer-Hahn L.G., Crenshaw D.M., Burtscher K., Bentz M.C.:
[The AGNIFS survey: distribution and excitation of the hot molecular and ionised gas in the inner kpc of nearby Seyfert galaxies](#),
Monthly Notices of the Royal Astronomical Society, submitted (2020)
109. *Hwang H.-C., Ting Y.-S., Schlaufman K.C., Zakamska N.L., Wyse R.F.G.:
[The non-monotonic, strong metallicity dependence of the wide-binary fraction](#),
Monthly Notices of the Royal Astronomical Society, submitted (2020)
<https://ui.adsabs.harvard.edu/abs/2020arXiv201002920H/abstract>
108. Riffel R.A., Dors O.L., Armah M., Storchi-Bergmann T., Feltre A., Cardaci M.V., Hägele G.F., Ruschel-Dutra D., Krabbe A.C., Pérez-Montero E., Zakamska N.L., Freitas I.C.:
[Chemical abundances in Seyfert galaxies – V. Spatial distribution of the electron temperature](#),
Monthly Notices of the Royal Astronomical Society, submitted (2020)
107. Shen Y., Chen Y.-C., *Hwang H.-C., Liu X., Zakamska N.L., Oguri M., Li J.I.:
[A hidden population of high-redshift close quasar pairs unveiled by astrometry](#),
Nature, submitted (2020)
106. *Ishikawa Y., Goulding A., Zakamska N., Hamann F., Vayner A., Veilleux S., Wylezalek D.:
[X-ray analysis of SDSS J165202.60+172852.4, an obscured quasar with outflows at peak galaxy formation epoch](#),
Monthly Notices of the Royal Astronomical Society, submitted (2020)
105. **Xiang K.M., Nataf D.M., Athanassoula E., Zakamska N.L., Rowlands K., Masters K., Fraser-McKelvie A., Drory N.:
[Buckling bars in face-on galaxies observed with MaNGA](#),
Monthly Notices of the Royal Astronomical Society, submitted (2020)
104. Murchikova L., Murphy E.J., Lis D.C., Armus L., de Mink S., Sheth K., Zakamska N., Tramper F., Bongiorno A., Elvis M., Kewley L., Sana H.:
[Reconstructing EUV spectrum of star forming regions from millimeter recombination lines of HI, HeI, and HeII](#),
Astrophysical Journal, in press (2020)
<https://ui.adsabs.harvard.edu/abs/2020arXiv200615153M>
103. *Chandra V., *Hwang H.-C., Zakamska N.L., Budavari T.:
[Computational tools for the spectroscopic analysis of white dwarfs](#),
Monthly Notices of the Royal Astronomical Society, 497, 2688 (2020)
<https://ui.adsabs.harvard.edu/abs/2020MNRAS.497.2688C>

102. *Hwang H.-C., Hamer J.H., Zakamska N.L., Schlaufman K.C.:
[Very wide companion fraction from Gaia DR2: weak enhancement for hot Jupiter hosts, and strong enhancement for contact binaries](#),
Monthly Notices of the Royal Astronomical Society, 497, 2250 (2020)
<https://ui.adsabs.harvard.edu/abs/2020MNRAS.497.2250H>
101. *Chandra V., *Hwang H.-C., Zakamska N.L., Cheng S.:
[A Gravitational Redshift Measurement of the White Dwarf Mass-Radius Relation](#),
Astrophysical Journal, 899, 146 (2020)
<https://ui.adsabs.harvard.edu/abs/2020ApJ...899..146C>
100. Riffel R.A., Zakamska N.L., Riffel R., Storchi-Bergmann T.:
[Ionized and hot molecular outflows in the inner 500 pc of NGC1275](#),
Monthly Notices of the Royal Astronomical Society, 496, 4857 (2020)
<https://ui.adsabs.harvard.edu/abs/2020MNRAS.496.4857R>
99. Xu X., Zakamska N., Arav N., Miller T., Benn C.:
[Evidence that Emission and Absorption Outflows in Quasars Are Related](#),
Astrophysical Journal, 495, 305 (2020)
<https://ui.adsabs.harvard.edu/abs/2020MNRAS.495..305X>
98. *Dempsey R., Zakamska N.L., Owen J.E.:
[Formation of Orion Fingers](#),
Monthly Notices of the Royal Astronomical Society, 495, 1172 (2020)
<https://ui.adsabs.harvard.edu/abs/2020MNRAS.495.1172D>
97. Mingozzi M., Belfiore F., Cresci G., Bundy K., Bershadsky M., Bizyaev D., Blanc G., Boquien M., Drory N., Fu H., Maiolino R., Riffel R., Schaefer A., Telles E., Tremonti C., Storchi-Bergmann T., Zakamska N., Zhang K.:
[SDSS IV MaNGA - Metallicity and ionisation parameter in local star-forming galaxies from Bayesian fitting to photoionisation models](#),
Astronomy & Astrophysics, 636, 42 (2020)
<https://ui.adsabs.harvard.edu/abs/2020A%26A...636A..42M>
96. Somalwar J., Johnson S.D., Stern J., Goulding A.D., Greene J.E., Zakamska N.L., Alexandroff R.M., Chen H.-W.:
[Spatially-resolved UV diagnostics of AGN feedback: radiation pressure dominates in a prototypical quasar-driven superwind](#),
Astrophysical Journal, 890, L28 (2020)
<https://ui.adsabs.harvard.edu/abs/2020ApJ...890L..28S>
95. *Hwang H.-C., Zakamska N.L.:
[Lifetime of short-period binaries measured from their Galactic kinematics](#),
Monthly Notices of the Royal Astronomical Society, 493, 227 (2020)
<https://ui.adsabs.harvard.edu/abs/2020MNRAS.493.2271H>
94. *Wylezalek D., **Flores A.M., Zakamska N.L., Greene J.E., Riffel R.A.:
[Ionized gas outflow signatures in SDSS-IV MaNGA active galactic nuclei](#),
Monthly Notices of the Royal Astronomical Society, 492, 4680 (2020)
<https://ui.adsabs.harvard.edu/abs/2020MNRAS.492.4680W>

93. Huang C.D., Riess A.G., Yuan W., Macri L.M., Zakamska N.L., Casertano S., Whitelock P.A., Hoffmann S.L., Filippenko A.V., Scolnic D.:
[Hubble Space Telescope Observations of Mira Variables in the Type Ia Supernova Host NGC 1559: An Alternative Candle to Measure the Hubble Constant](#)
Astrophysical Journal, 889, 5 (2020)
<https://ui.adsabs.harvard.edu/abs/2020ApJ...889...5H>
92. *Hwang H.-C., Shen Y., Zakamska N.L., Liu X.:
[Varstrometry for Off-nucleus and Dual sub-Kpc AGN \(VODKA\): Methodology and Initial Results with Gaia DR2](#),
Astrophysical Journal, 888, 73 (2020)
<https://ui.adsabs.harvard.edu/abs/2020ApJ...888...73H>
91. Riffel R.A., Zakamska N.L., Riffel R.:
[Active Galactic Nuclei winds as the origin of the H₂ emission excess in nearby galaxies](#),
Monthly Notices of the Royal Astronomical Society, 491, 1518 (2020)
<https://ui.adsabs.harvard.edu/abs/2020MNRAS.491.1518R>
90. **Hall K.R., Zakamska N.L., ACT collaboration (23 co-authors in alphabetical order):
[Quantifying the Thermal Sunyaev-Zel'dovich Effect and Excess Millimeter Emission in Quasar Environments](#),
Monthly Notices of the Royal Astronomical Society, 490, 2315 (2019)
<https://ui.adsabs.harvard.edu/abs/2019MNRAS.490.2315H>
89. Shen Y., *Hwang H.-C., Zakamska N.L., Liu X.:
[Varstrometry for Off-nucleus and Dual sub-Kpc AGN \(VODKA\): How Well-centered Are Low-z AGN?](#)
Astrophysical Journal Letters, 885, L4 (2019)
<https://ui.adsabs.harvard.edu/abs/2019ApJ...885L...4S>
88. Zakamska N. L., *Sun A.-L., Strauss M. A., *Alexandroff R. M., Brandt W. N., Chiaberge M., Greene J. E., Hamann F., Liu G., Perrotta S., Ross N. P., *Wylezalek D.:
[Host galaxies of high-redshift extremely red and obscured quasars](#),
Monthly Notices of the Royal Astronomical Society, 489, 497 (2019)
<https://ui.adsabs.harvard.edu/abs/2019MNRAS.489..497Z>
87. Perrotta S., Hamann F., Zakamska N.L., *Alexandroff R.M., Rupke D., *Wylezalek D.:
[ERQs are the BOSS of Quasar Samples: The highest-velocity \[OIII\] quasar outflows](#),
Monthly Notices of the Royal Astronomical Society, 488, 4126 (2019)
<https://ui.adsabs.harvard.edu/abs/2019MNRAS.488.4126P>
86. *Lambrides E. L., Petric A. O., Tchernyshyov K., Zakamska N. L., Watts D. J.:
[Mid-infrared spectroscopic evidence for AGN heating warm molecular gas](#),
Monthly Notices of the Royal Astronomical Society, 487, 1823 (2019)
<https://ui.adsabs.harvard.edu/abs/2019MNRAS.487.1823L>
85. Pirzkal N., et al. (33 co-authors, FIGS collaboration):
[A Two-dimensional Spectroscopic Study of Emission-line Galaxies in the Faint Infrared Grism Survey \(FIGS\). I. Detection Method and Catalog](#),
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