

CONTACT INFORMATION

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APPOINTMENTS

Johns Hopkins University, Baltimore, MD

Professor, Dept. of Physics and Astronomy, July 2021 - present
Associate Professor, Dept. of Physics and Astronomy, July 2017 - June 2021
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

JHU President's Frontier Award Finalist (2023; Johns Hopkins University; one of the three university-wide finalists; funding for the award provided by trustee Louis J. Forster and alumnus David Smilow)
J. Robert Oppenheimer Visiting Professor (2021-2022; Institute for Advanced Study; additional funding provided by the Bershadsky Fund)
Faculty Undergraduate Advising Award (2021; Johns Hopkins University; one award per year to a faculty member in School of Arts and Sciences)
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 USCD in 2019, three papers
Yuzo Ishikawa (2019 – present) – Ph.D. thesis student; two papers
Gautham Adamane Pallathadka (2022 – present), Nadiia Diachenko (2022 – present), Swetha Sankar (2022 – present) – graduate research advisees
Brandon Stride (2020 – present), Andrew Liu (2021 – present) – one paper, Stefan Arseneau (2022 – present) – undergraduate research advisees
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, continuing collaboration
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) [now a group leader in U Heidelberg], 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:

Hsiang-Chih Hwang (2016 – 2021) – fourteen papers in collaboration during the Ph.D., five with Hwang as the first author [now postdoctoral fellow at the Institute for Advanced Study], continuing collaboration
Kirsten Hall (2014 – 2020) – co-advised with T. Marriage, Ph.D. July 2020, two papers [now SMA Fellow and Schmidt Fellow at Harvard]
Zhicheng He (2017 – 2018) – visiting graduate student from USTC; one paper [now faculty at University of Science and Technology in China]
Rachael Alexandroff (2012 – 2017) – graduate student, Ph.D. July 2017 [after Ph.D., at the University of Toronto with the National Postdoctoral Fellowship of Canada; now data analyst for New York City Government], three papers
Erini Lambrides (2015 – 2017) – graduate student on research rotation, one paper

Joseph Cleary (2013 - 2016) – undergraduate and graduate research rotations, 2016 Kerr Memorial Prize, co-author of two papers

Carlos Anicetti (2019 – 2020), Qinan Wang (2018), Omnarayani Nayak (2012-2013), Mohammad Safarzadeh (2012-2013), Zhilei Xu (2012), Ting Su (2011) – students on rotation projects

Undergraduate students:

Gavin Fezenko (2020 – 2022) – undergraduate research advisee, one paper [now in aerospace industry]

Vedant Chandra (2018 – 2021) – undergraduate research advisee; four papers [now graduate student in Harvard]

Evan Petrosky (2018 – 2021) – undergraduate research advisee, one paper published [now graduate student in UMich]

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 [graduate student at Harvard, postdoc at Oxford]

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: <http://sites.krieger.jhu.edu/jhu-care/>

2022: Brandon Stride, Andrew Liu, Kyle Schneider, Stefan Arseneau, Katherine Song, Antonella Macoretta, Eric Ding (co-advised by Vedant Chandra, Hsiang-Chih Hwang, David Nataf, Yuzo Ishikawa) – one paper

2020: Brandon Stride, Carsten Langholm, Devon Williams, Felix Yu, Gavin Fezenko, John Magardino, Kyle Schneider, Mansha Kapur, Matt Kleiman, Evan Petrosky, Vedant Chandra (co-advised by Vedant Chandra, Hsiang-Chih Hwang, David Nataf, Caroline Huang) – three papers

2019: Shuchen Zhang (co-advised by Hsiang-Chih Hwang)

2018: Katherine Xiang (co-advised by Dr. Nataf) [now graduate student at Harvard] – one paper

2017: Channa Luke, Anthony Flores [now graduate student at Stanford] (co-advised by Dr. Wylezalek), Wenzer Qin (co-advised by 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, Spring 2023, graduate (core): AS.171.603 Electromagnetic Theory, 33 students

JHU, Fall 2022, undergraduate: AS.171.101 Classical Mechanics for engineering majors, 85 students

JHU, Spring 2021, graduate (core): AS.171.603 Electromagnetic Theory, 20 students
 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

Member of the Scientific Organizing Committee for “What drives the growth of black holes: a decade of reflection” (Iceland, September 2022)
 Referee for Science, Nature, Nature Astronomy, Cambridge University Press, A&A, AJ, ApJ, MNRAS, 2004-present
 Review panels: over twenty panels, including four chaired, 2008-present
 Frequent user of ground-based and space-based observing facilities and archival datasets, surveys: SDSS-I,II,III,IV,V, Subaru-PFS; SDSS-III Collaboration Council Representative from JHU (2011-2015); SDSS Collaboration meeting, organizing committee 06/2013 – 120 participants; SDSS-V Collaboration Council Representative from JHU (2020-present)
 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

- “2022: A space-comic odyssey”, 12/2022
<https://www.csmonitor.com/Science/2022/1222/2022-A-space-comic-odyssey>
- “Webb Uncovers Dense Cosmic Knot In The Early Universe”, 10/2022
<https://esawebb.org/news/weic2217/>,
[urlhttps://webbtelescope.org/contents/news-releases/2022/news-2022-058](https://webbtelescope.org/contents/news-releases/2022/news-2022-058) and <https://hub.jhu.edu/2022/10/20/webb-quasar-galaxies/>
- “The James Webb Space Telescope: What’s Next?”, 08/2022,
<https://www.ias.edu/ideas/2022/james-webb-early-release-science-program> and <https://novayagazeta.eu/articles/2022/07/13/doiti-do-samoi-suti-vselennoi> [in Russian]
- “IAS welcomes 271 scholars for 2021-22 academic year”, 09/2021,
<https://www.ias.edu/news/2021/welcome-day>
- “Hubble spots double quasars in merging galaxies”, 04/2021,
<https://hubblesite.org/contents/news-releases/2021/news-2021-14.html>
- “A hidden population of high-redshift double quasars unveiled by astrometry”, 04/2021,
<https://astronomycommunity.nature.com/posts/a-hidden-population-of-high-redshift-double-quasars->
- “Black Hole Pairs Found in Distant Merging Galaxies”, 04/2021,
<https://noirlab.edu/public/news/noirlab2113/>
- “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/astrophysicsists-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?>
- “Far fewer stars are born due to intense radiation from quasars”, 03/2016,
<https://hub.jhu.edu/2016/03/23/quasar-slow-star-formation/>
- “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

- 01/2023 – present: Vice Chair for Academics (Department of Physics and Astronomy), member of the graduate and undergraduate program committees, teaching assignment committee, department’s executive committee
- Director of graduate studies (Department of Physics and Astronomy) – ~120 students. Graduate program committee: 09/2011 – 06/2021, 01/2023 – present; as Chair: 01/2018 – 06/2021. 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): 20; thesis defenses: 17; thesis committees: 10 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 - Spring 2021); 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–present, 24 undergraduates in my group plus others covered by program activities, eight 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, 2022 – present

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

JHU representative in the SDSS-V Collaboration Council (11/2020 – present); 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:

JHU Physics and Astronomy Colloquium (Baltimore, MD, 03/2023);
 Society of Physics Students (JHU, Baltimore, MD, 02/2023);
 CITA seminar (Toronto, Canada, 06/2022);
 Princeton / IAS Joint Colloquium (Princeton, NJ, 11/2021);
 Astro-Cosmic Centre, Lebedev Physical Institute (Moscow, Russia, 05/2021);
 UC Riverside (Riverside, CA, 04/2021);
 Technion (Israel, 04/2021);
 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 European Astronomical Society meeting, Valencia, Spain, 06/2022;
Invited talk at “Multiphase AGN Feeding & Feedback II”, Sesto, Italy, 06/2022;
Invited talk at the annual symposium of the Institute for Data Intensive Engineering and Science, Baltimore, MD, 10/2021;
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:

“James Webb Space Telescope: from practice to promise” at the Friends of the Institute event at the Institute for Advanced Study, Princeton, NJ, 04/2023;
“Introduction to James Webb Space Telescope” at the Hereford High School, Parkton, MD, 03/2023;
“Supermassive black holes” at “Women in Physics” event for the Physics and Astronomy Advisory Council, Baltimore, MD, 12/2020;
“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 – for example, they are thought to limit the maximal stellar mass of galaxies in the universe – but they have long evaded direct detection. In the last few years, our group has developed multiple novel techniques for probing this multi-phase phenomenon and discovered galaxy-scale quasar-driven winds in a variety of populations. I am continuing 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. Our group has extensive access to James Webb Space Telescope data through five accepted Early Release and Cycle 1 programs.

With the recent discovery of gravitational waves from neutron star and black hole mergers and with upcoming large time-variability surveys like Rubin 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. I am particularly excited about using modern surveys to discover and characterize binary white dwarfs in order to uncover the long-sought population of the progenitors of type Ia supernovae.

PUBLICATIONS

Asterisk marks students and postdocs in my group; two asterisks if co-advised.

Refereed publications:

134. Velleux S., Liu W., *Vayner A., Wylezalek D., Rupke D., Zakamska N.L., *Ishikawa Y., et al. (22 co-authors in alphabetical order, Q3D team)L
[First results from the JWST Early Release Science Program Q3D: The Warm Ionized Gas Outflow in \$z \sim 1.6\$ Quasar XID 2028 and its Impact on the Host Galaxy](#),
Astrophysical Journal, submitted (2023)
<https://ui.adsabs.harvard.edu/abs/2023arXiv230308952V/abstract>
133. Gillette J., Lau M.W., Hamann F., Perrotta S., Rupke D.S.N., Wylezalek D., Zakamska N.L., *Vayner A.: [Compact and Quiescent Circumgalactic Medium and Ly \$\alpha\$ Halos around Extremely Red Quasars \(ERQs\)](#),
Monthly Notices of the Royal Astronomical Society, submitted (2023)
<https://ui.adsabs.harvard.edu/abs/2023arXiv230312835G/abstract>
132. *Vayner A., Zakamska N.L., *Ishikawa Y., *Sankar S., Wylezalek D., Rupke D.S.N., Veilleux S., et al. (17 co-authors in alphabetical order, Q3D team): [First results from the JWST Early Release Science Program Q3D: Ionization cone, clumpy star formation and shocks in a \$z = 3\$ extremely red quasar host](#),
Journals of the AAS, submitted (2023)
<https://arxiv.org/abs/2303.06970>
131. *Ishikawa Y., Wang B., Zakamska N.L., Richards G.T., Hennawi J.F., Rivera A.B.: [Infrared spectroscopic confirmation of \$z \sim 2\$ photometrically-selected obscured quasars](#),
Monthly Notices of the Royal Astronomical Society, in press (2023)
<https://ui.adsabs.harvard.edu/abs/2023MNRAS.522..350I/abstract>
130. Shen L., Liu G., He Z., Zakamska N.L., Glikman E., Greene J.E., Hu W., Mou G., Wylezalek D., Rupke D.:
[Discovery of spectacular quasar-driven super-bubbles in red quasars](#),
Science Advances, submitted (2023)
129. *Liu Y., Hwang H.-C., Zakamska N.L., Thorstensen J.R.:
[CSS1603+19: a low-mass polar near the cataclysmic variable period minimum](#),
Monthly Notices of the Royal Astronomical Society, in press (2022)
<https://arxiv.org/abs/2211.14945>
128. Riffel R.A., Riffel R., Bianchin M., Storchi-Bergmann T., Souza de Oliveira G.L., Zakamska N.L.:
[Spatially resolved observations of outflows in the radio loud AGN of UGC 8782](#),
Monthly Notices of the Royal Astronomical Society, 521, 3260 (2023)
<https://ui.adsabs.harvard.edu/abs/2023MNRAS.521.3260R/abstract>
127. Chen Y.-C., Liu X., Foord A., Shen Y., Chen N., Holgado M., Di Matteo T., Oguri M., Hwang H.-C., Zakamska N.:
[A close quasar pair in a disk-disk galaxy merger at \$z = 2.17\$](#) ,

- Nature*, 616, 45 (2022) <https://ui.adsabs.harvard.edu/abs/2023Natur.616...45C/abstract>
Media: Hubble
126. Shen Y., Hwang H.-C., Oguri M., Chen N., Di Matteo T., Ni Y., Bird S., Zakamska N., Liu X., Chen Y.-C., Kratter K.M.:
[Statistics of Galactic-Scale Quasar Pairs at Cosmic Noon](#),
Astrophysical Journal, 943, 38 (2023)
<https://ui.adsabs.harvard.edu/abs/2022arXiv220804979S/abstract>
125. Riffel R.A., et al. (19 co-authors):
[AGNIFS survey: spatially resolved observations of hot molecular and ionised outflows in nearby active galaxies](#),
Monthly Notices of the Royal Astronomical Society, 521, 1832 (2023)
<https://ui.adsabs.harvard.edu/abs/2023MNRAS.521.1832R/abstract>
124. *Vayner A., Zakamska N.L., Sabhlok S., Wright S.A., Armus L., Murray N., Walth G., *Ishikawa Y.:
[Cold mode accretion on two galaxy groups at \$z \sim 2\$](#) ,
Monthly Notices of the Royal Astronomical Society, 519, 961 (2023)
<https://ui.adsabs.harvard.edu/abs/2023MNRAS.519..961V/abstract>
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