

TAMARA BOGDANOVIĆ, Ph.D.

Assistant Professor

School of Physics and Center for Relativistic Astrophysics
Georgia Institute of Technology

I. Earned Degrees

2006	Ph.D.	Astronomy & Astrophysics	Pennsylvania State University (Advisers: M. Eracleous and S. Sigurdsson)
2000	B.Sc.	Astrophysics	University of Belgrade, Serbia

II. Employment History

2017 –	Associate Professor	School of Physics, Georgia Tech
2012 – 2017	Assistant Professor	School of Physics, Georgia Tech
2009 – 2012	Einstein Postdoctoral Fellow	University of Maryland
2006 – 2009	Astronomy Prize Theory Postdoc	University of Maryland (Adviser: C.S. Reynolds)

III. Honors and Awards

2017 – 2018	Provost Teaching & Learning Fellow (College of Sciences, Georgia Tech)
2016	Cullen-Peck Fellow (College of Sciences, Georgia Tech)
2016	Cottrell Scholar Award (Research Corporation for Science Advancement)
2013	Sloan Research Fellow (Alfred P. Sloan Foundation)
2012–2016	Nine "Thank a Teacher" certificates from Georgia Tech students via the Center for Enhancement of Teaching and Learning
2009 – 2012	Einstein Postdoctoral Fellowship (NASA)
2006 – 2009	Astronomy Prize Theory Postdoctoral Fellowship (University of Maryland)
2001 – 2005	Zaccheus Daniel Graduate Student Fellowship (Pennsylvania State University)
2001 – 2002	Braddock Graduate Student Fellowship (Pennsylvania State University)
2001	Award for outstanding achievement during undergraduate studies (U. of Belgrade)
1995 – 2000	Undergraduate Fellowship for Talented Students (Serbian Ministry of Science and Education)

IV. Research, Scholarship, and Creative Activities

A. Published Books, Parts of Books, and Edited Volumes

A1. Books

No data

A2. Refereed Book Chapters

No data

A3. Edited Volumes

No data

B. Refereed Publications and Submitted Articles

B1. Published and Accepted Journal Articles

Legend: Bold number indicates work done at Georgia Tech. Contributions by students and postdocs supervised by Bogdanović are marked accordingly. Google Scholar profile at <https://scholar.google.com/citations?user=w3654NQAAAAJ&hl=en>

29. Park, K-H., Wise, J.H. & **Bogdanović, T.** 2017, “Radiation-driven Turbulent Accretion onto Massive Black Holes” *Astroph. Journal*, submitted, arXiv:1704.07864.
28. Park, K-H. & **Bogdanović, T.** 2017, “Gaseous Dynamical Friction in Presence of Black Hole Radiative Feedback”, *Astroph. Journal*, 838, 103.
27. Runnoe, J. C., Eracleous, M., Pennell, A., Mathes, G., Boroson, T., Sigurdsson, S., **Bogdanović, T.**, Halpern, J. P., Liu, J. & Brown, S. 2017, “A Large Systematic Search for Close Supermassive Binary and Rapidly Recoiling Black Holes - III. Radial Velocity Variations”, *Monthly Notices of Royal Astron. Soc.*, 468, 1683.
26. De Rosa, A., Bianchi, S., **Bogdanović, T.**, Decarli, R., Heidt, J., Herrero-Illana, R., Husemann, B., Komossa, S., Kun, E., Loiseau, N., Guainazzi, M., Paragi, Z., Perez-Torres, M., Piconcelli, E., Schawinski, K., & Vignali, C. 2016, “Unveiling Multiple AGN activity in galaxy mergers”, *Astronomische Nachrichten*, accepted, arXiv:1611.00554.
25. Nguyen, K. & **Bogdanović, T.** 2016, “Emission Signatures from Sub-parsec Binary Supermassive Black Holes I: Diagnostic Power of Broad Emission Lines”, *Astroph. Journal*, 828, 68.
24. Kieffer, T. F. & **Bogdanović, T.** 2016, “Can Star-Disk Collisions Explain the Missing Red Giants Problem in the Galactic Center?” *Astroph. Journal*, 823, 155.
23. Park, K-H., Ricotti, M., Natarajan, P., **Bogdanović, T.**, & Wise, J.H. 2016, “Bulge-Driven Fueling of Seed Black Holes” *Astroph. Journal*, 818, 184.
22. Runnoe, J. C., Eracleous, M., Mathes, G., Pennell, A., Boroson, T., Sigurdsson, S., **Bogdanović, T.** & Halpern, J. P. 2015, “A Large Systematic Search for Close Supermassive Binary and Rapidly Recoiling Black Holes - II. Continued Spectroscopic Monitoring and Optical Flux Variability” *Astroph. Journal Supp.*, 221, 7.
21. De Rosa, A., Bianchi, S., **Bogdanović, T.**, Decarli, R., Herrero-Illana, R., Husemann, B., Komossa, S., Kun, E., Loiseau, N., Paragi, Z., Perez-Torres, M., Piconcelli, E., Schawinski, K., Vignali, C. 2015, “Multiple AGN in the crowded field of the compact group around SDSS J0959+1259” *Monthly Notices of Royal Astron. Soc.*, 453, 214.
20. Cheng, R. M. & **Bogdanović, T.** 2014, “Tidal Disruption of a Star in the Schwarzschild Spacetime: Relativistic Effects in the Return Rate of Debris” *Phys. Rev. D*, 90, 064020.
19. **Bogdanović, T.**, Cheng, R. M., & Amaro-Seoane, P. 2014, “Disruption of a Red Giant Star by a Supermassive Black Hole and the Case of PS1-10jh” *Astroph. Journal*, 788, 99.
18. Jovanović, P., Borka Jovanović, V., Borka D., & **Bogdanović, T.** 2014, “Composite Profile of the Fe K α Spectral line Emitted From a Binary System of Supermassive Black Holes” *Adv. Space Res.*, 54, 1448.
17. Prodanović, T., **Bogdanović, T.**, & Urošević, D. 2013, “Galactic Fly-Bys: New Source of Lithium Production” *Phys. Rev. D*, 87, 103014.
16. Avara, M., Reynolds, C. S., & **Bogdanović, T.** 2013, “Role of Magnetic Field Strength and Numerical Resolution in Simulations of the Heat-flux Driven Buoyancy Instability” *Astroph. Journal*, 773, 171.

15. Lang, M., Holley-Bockelmann, K., **Bogdanović, T.**, Amaro-Seoane, P., Sesana, A., & Sinha M. 2013, “Can a Satellite Galaxy Merger Explain the Active Past of the Galactic Center?” *Monthly Notices of Royal Astron. Soc.*, 430, 2574.
14. Kunz, M. W., **Bogdanović, T.**, Reynolds, C.R., & Stone, J. M. 2012, “Buoyancy Instabilities in a Weakly Collisional Intracluster Medium” *Astroph. Journal*, 754, 122.
13. Flohic, H. M. L. G., Eracleous, M., & **Bogdanović, T.** 2012, “Effects of an Accretion Disk Wind on the Profile of AGN Emission Lines” *Astroph. Journal*, 753, 133.
12. Bode, T., **Bogdanović, T.**, Haas, R., Healy, J., Laguna, P., & Shoemaker, D.M. 2012, “Relativistic Mergers of Supermassive Black Holes in Astrophysical Environments” *Astroph. Journal*, 744, 45.
11. **Bogdanović, T.**, Bode, T., Haas, R., Laguna, P., & Shoemaker, D.M. 2011, “Properties of Accretion Flows Around Coalescing Supermassive Black Holes” *Class. Quantum Grav.*, 28, 094020.
10. **Bogdanović, T.**, Reynolds, C.R., & Massey, R. 2011, “Using Faraday Rotation to Probe MHD Instabilities in Intracluster Media ” *Astroph. Journal*, 731, 7.
9. Bode, T., Haas, R., **Bogdanović, T.**, Laguna, P., & Shoemaker, D.M. 2010, “Relativistic Mergers of Supermassive Black Holes and their Electromagnetic Signatures” *Astroph. Journal*, 715, 1117.
8. **Bogdanović, T.**, Reynolds, C. R., Balbus, S. A., & Parrish, I. J. 2009, “Simulations of MHD Instabilities in Intracluster Medium Including Anisotropic Thermal Conduction” *Astroph. Journal*, 704, 211.
7. O’Neill, S. M., Miller, M. C., **Bogdanović, T.**, Reynolds, C. R., & Schnittman, J. 2009, “Reaction of Accretion Disks to Abrupt Mass Loss During Binary Black Hole Merger” *Astroph. Journal*, 700, 859.
6. **Bogdanović, T.**, Eracleous, M., & Sigurdsson, S. 2009, “Emission Lines as a Tool in Search for Supermassive Black Hole Binaries and Recoiling Black Holes” *New Astron. Rev.*, 53, 113.
5. **Bogdanović, T.**, Eracleous, M., & Sigurdsson, S. 2009, “SDSS J092712.65+294344.0: Recoiling Black Hole or A Sub-parsec Binary Candidate?” *Astroph. Journal*, 697, 288.
4. **Bogdanović, T.**, Smith, B. D., Sigurdsson, S., & Eracleous, M. 2008, “Modeling of Emission Signatures of Massive Black Hole Binaries: I Methods” *Astroph. Journal Supp.*, 174, 455.
3. **Bogdanović, T.**, Reynolds, C. S., & Miller, M. C. 2007, “Alignment of the Spins of Supermassive Black Holes Prior to Coalescence” *Astroph. Journal Lett.*, 661, L147.
2. **Bogdanović, T.**, Eracleous, M., Mahadevan, S., Sigurdsson, S., & Laguna, P. 2004, “Tidal Disruption of a Star by a Black Hole: Observational Signature” *Astroph. Journal*, 610, 707.
1. **Bogdanović, T.**, Ge, J., Max, C. E., & Raschke, L. M. 2003, “Circumnuclear Shock and Starburst in NGC 6240: Near-IR Imaging and Spectroscopy” *Astron. Journal*, 126, 2299.

B2. Conference Presentations with Proceedings (Refereed)

No data

B3. Other Refereed Material

No data

B4. Submitted Journal Articles (with date of submission)

No data

B5. Journal Articles in Preparation

1. Nguyen, K., **Bogdanović, T.** and collaborators 2017, “Emission Signatures from Sub-parsec Binary Supermassive Black Holes II: Effect of Accretion Disk Wind on Broad Emission Lines”, **in prep.**
2. Pflueger, B., **Bogdanović, T.** and collaborators 2017, “Likelihood for Detection of Sub-parsec Supermassive Black Hole Binaries in Spectroscopic Surveys”, **in prep.**

C. Other Publications

C1. Non-refereed Conference Proceedings

11. De Rosa, A., Bianchi, S., **Bogdanović, T.**, Decarli, R., Heidt, J., Herrero-Illana, R., Husemann, B., Komossa, S., Kun, E., Loiseau, N., Guainazzi, M., Paragi, Z., Perez-Torres, M., Piconcelli, E., Schawinski, K., & Vignali, C. 2017, “Multiple AGN Activity with SKA and Athena” for *SKA-Athena synergy Workshop White Paper, April 2017*.
10. Volonteri, M., **Bogdanović, T.**, Dotti, M., & Colpi, M. 2015, “Massive black holes in merging galaxies” in *Astronomy in Focus, Vol. 1*, ed. P. Benvenuti (2015 International Astronomical Union).
9. **Bogdanović, T.** 2015, “Supermassive Black Hole Binaries: The Search Continues” in *Astrophysics and Space Science Proceedings*, ed. C. Sopena (Berlin Heidelberg: Springer-Verlag), 40, 103.
8. Prodanović, T., **Bogdanović, T.**, Urošević, D. 2012, “Lithium production in galactic flybys” in *Memorie della Societa Astronomica Italiana Supplementi*, 22, 207.
7. Eracleous, M., Flohic, H. M. L. G., & **Bogdanović, T.** 2012, “Effects of an Accretion Disk Wind on the Profile of AGN Emission Lines” in *AGN Winds in Charleston*, eds. G. Chartas, K. Leighly, & F. Hamman, ASP Conf. Ser. (San Francisco: ASP).
6. **Bogdanović, T.**, Reynolds, C. S., & Miller, M. C. 2007, “Alignment of the Spins of Supermassive Black Holes Prior to Coalescence” in *2007 Spring Symposium: Black Holes*, ed. M. Livio, STScI, <http://www.stsci.edu/institute/conference/spr07/posterbook-07.pdf>, 1.
5. **Bogdanović, T.** 2006, “Close encounters of black holes, stars, and gas in galactic nuclei: A study of the observational signatures,” Ph.D. Thesis, Pennsylvania State University.
4. **Bogdanović, T.**, Smith, B. D., Eracleous, & Sigurdsson, S. 2006, “Electromagnetic Signatures of Massive Black Hole Binaries.” in *6th International LISA Symposium*, eds. S. M. Merkowitz & J. C. Livas, AIP Conf. Proc. 873 (New York: ASP), 257.
3. Eracleous, M., Lewis, K. T., **Bogdanović, T.**, & Gezari, S. 2006, “Models and Ideas for the Interpretation of the Variability of Double-Peaked Emission Lines,” in *AGN Variability from the X-Rays to the Radio*, eds. C. M. Gaskell, B. M. Peterson, & S. Sergeev, ASP Conf. Ser. 360 (San Francisco: ASP), 227.
2. **Bogdanović, T.** Eracleous, M., Mahadevan, S., Sigurdsson, S., & Laguna, P. 2004, “Observational Signature of Tidal Disruption of a Star by a Massive Black Hole,” in *Proceedings of The 22nd Texas Symposium on Relativistic Astrophysics*, eds. P. Chen & G. Madejski (SLAC Technical Publications <http://www.slac.stanford.edu/conf/CO41213>).
1. **Bogdanović, T.**, Eracleous, M., Mahadevan, S., Sigurdsson, S., & Laguna, P. 2004, “Observational Signature of Tidal Disruption of a Star by a Massive Black Hole,” in

The Interplay Among Black Holes, Stars, and ISM in Galactic Nuclei, eds. T. Storchi-Bergmann, L. C. Ho, & H. R. Schmitt, IAU Symposium 222 (Cambridge: Cambridge U. Press), 81.

D. Presentations

D1. Invited Presentations at Conferences

- 26) 22 May 2017 Kavli workshop on The Disc Migration Issue, University of Cambridge, UK
- 25) 18 Feb 2017 Winter Meeting of the American Association of Physics Teachers, Atlanta, GA
- 24) 14 Oct 2016 Sialog: Time Domain Astrophysics, Tucson, AZ
- 23) 13 Jul 2016 Cottrell Scholar Conference, Tucson, AZ
- 22) 11 Aug 2015 Astro-GR 2015, Sao Paulo, Brazil
- 21) 18 Jan 2015 Black Holes in Dense Star Clusters, Aspen Center for Physics
- 20) 25 Apr 2014 Sant Cugat Forum on Astrophysics, Sant Cugat, Spain
- 19) 18 Mar 2014 ISSI Collaboration Meeting, Bern, Switzerland
- 18) 22 Jan 2014 Atlanta Astrophysics Jamboree, Georgia Tech
- 17) 5 Sep 2013 Black Hole (g)Astronomy, Brindisi, Italy
- 16) 27 Aug 2012 CRA Minisymposium on Xtreme Astrophysics, Georgia Tech
- 15) 3 Jul 2012 13th Marcel Grossman Meeting, Stockholm, Sweden
- 14) 21 Jun 2012 Black Hole Universe 2012, Bamberg, Germany
- 13) 17 Feb 2012 JSI Mini-Symposium, University of Maryland
- 12) 25 Oct 2011 Einstein Fellows Symposium, Goddard, MD
- 11) 12 Oct 2011 National Conference of Astronomers of Serbia, Belgrade, Serbia
- 10) 16 Sep 2011 JSI Mini-Symposium, University of Maryland
- 9) 8 Sep 2011 Astro-GR@Mallorca, Palma de Mallorca, Spain
- 8) 17 Nov 2010 Ins and Outs of Black Holes, Annapolis, MD
- 7) 20 Oct 2010 Einstein Fellows Symposium, Harvard-Smithsonian CfA, Cambridge, MA
- 6) 14 Sep 2010 LISA Astro-GR@Paris, Paris, France
- 5) 23 Aug 2010 Physics of Intercluster Medium, University of Michigan
- 4) 29 Jun 2010 8th International LISA Symposium, Stanford, CA
- 3) 19 Feb 2010 Formation and Evolution of Black Holes, Aspen, CO
- 2) 9 Sep 2009 LISA Astro-GR@BCN, Barcelona, Spain
- 1) 19 May 2009 Multi-Messenger Relativistic Astrophysics Conf., Georgia Tech

D2. Invited Presentations at Universities and Institutes

- 36) 24 Mar 2017 Women in Physics Research Seminar, Georgia State University
- 35) 5 Feb 2016 Physics Colloquium, Kennesaw State University
- 34) 3 Feb 2015 Lorentz Center Highlights, Leiden University, Netherlands
- 33) 3 Dec 2014 Physics & Astronomy Colloquium, University of Alabama, Tuscaloosa
- 32) 2 Dec 2014 Physics Seminar, University of Alabama, Huntsville
- 31) 10 Sep 2014 Astronomy Colloquium, Columbia University
- 30) 5 Jun 2014 Program for NSF's Directorate of Math & Physical Sciences visit to GT
- 29) 10 Apr 2014 Astronomy Colloquium, U. Wisconsin-Madison
- 28) 17 Mar 2014 ETH and University of Zurich joint Theory Colloquium, Zurich, Switzerland
- 27) 9 Dec 2013 CITA Seminar, Toronto, Canada
- 26) 29 Oct 2013 UT Austin Astronomy Colloquium
- 25) 1 Oct 2013 Georgia State University Physics and Astronomy Colloquium

- 24) 13 Aug 2013 KITP Morning Coffee Seminar, Santa Barbara, CA
- 23) 14 Dec 2011 STScI Colloquium, Space Telescope Science Institute, Baltimore, MD
- 22) 31 Oct 2011 Gravity Theory Seminar, Physics, Univ. of Maryland
- 21) 13 Jun 2011 Goddard Space Flight Center, GUN Seminar
- 20) 3 Jun 2011 Aspen Center for Physics
- 19) 21 Apr 2011 Kavli Institute for Theoretical Physics
- 18) 11 Mar 2011 DTM, Carnegie Institute of Washington
- 17) 8 Mar 2011 Institute for Theory and Computation, Harvard-Smithsonian CfA
- 16) 7 Mar 2011 Massachusetts Institute of Technology, Grails Seminar
- 15) 2 Feb 2011 Georgia Tech University
- 14) 20 Aug 2010 Naval Research Laboratory
- 13) 2 Feb 2010 Rochester Institute of Technology
- 12) 23 Jun 2009 Institute for Physics, Zemun, Serbia
- 11) 18 Nov 2008 Pennsylvania State University
- 10) 9 Oct 2008 Georgia Tech University
- 9) 29 Sep 2008 Dickinson College
- 8) 18 Feb 2008 University of Michigan
- 7) 7 Dec 2007 DTM, Carnegie Institute of Washington
- 6) 13 Nov 2007 Goddard, Astrophysics Science Division Colloquium
- 5) 19 Oct 2007 Rutgers University
- 4) 2 Oct 2007 Yale University
- 3) 25 Sep 2007 Columbia University
- 2) 15 May 2007 Drexel University
- 1) 12 Jan 2006 Northwestern University

D3. Contributed Presentations

- 12) 5 Jan 2017 229th AAS Meeting
- 13) 3 Mar 2015 TCAN Meeting, Georgia Tech
- 12) 4 Jan 2015 225th AAS Meeting
- 11) 15 Sep 2014 Guest Speaker at the Women, Science & Technology Dinner, Georgia Tech
- 10) 18 Sep 2013 Cosmic Coffee Seminar, Georgia Tech
- 9) 6 Mar 2013 Cosmic Coffee Seminar, Georgia Tech
- 8) 13 Apr 2012 CRA Brown Bag Lunch, Georgia Tech
- 7) 1 Mar 2010 11th High Energy Astrophysics Division Meeting
- 6) 18 Jun 2009 7th Serbian Conf. on Spectral Line Shapes, Zrenjanin, Serbia
- 5) 6 Jan 2009 213 AAS Meeting
- 4) 6 Feb 2008 LISA Astro-GR@Como Meeting, Como, Italy
- 3) 31 May 2007 210th AAS Meeting
- 2) 21 Jun 2006 6th International LISA Symposium
- 1) 9 Jan 2006 207th AAS Meeting

E. Grants and Contracts

- Total funding awarded as GT PI or Co-PI: \$1,309,347 (\$737,969 as GT PI)
- Career wide funding awarded as PI or Co-PI: \$1,775,363 (\$1,203,985 as PI)
- Total computing time awarded as GT PI or Co-PI: 7,125,280 CPU hours
- Equivalent value of computational resources: \$246,557 (estimate source: XSEDE)

F. Other Scholarly Accomplishments

G. Societal and Policy Impacts

G1. Media Coverage

2016 **Interview for “People Behind the Science Podcast”**, released: Oct 10, 2016

Hosted by Dr. Marie McNeely (Washington University)

<http://www.peoplebehindthescience.com/dr-tamara-bogdanovic/>

2016 **Press release “College of Sciences Names 2016 Cullen-Peck Fellows”**

Written by: A. Maureen Rouhi (Georgia Tech College of Sciences Communications Office)

<http://www.cos.gatech.edu/hg/item/566451>

2016 **Press release “Computer Simulations Shed Light on the Milky Way’s Missing Red Giants”**, 7 Jun 2016.

Written by: Jason Maderer (Georgia Tech Communications Office)

<http://www.news.gatech.edu/2016/06/07/computer-simulations-shed-light-milky-ways-missing-red-giants>

2016 **Science magazine features Bogdanović as one of 2016 Cottrell Scholars**

Publication title: *2016 Cottrell Scholars*, Issue: 29 Apr 2016.

Released by: Research Corporation for Science Advancement

<http://science.sciencemag.org/content/sci/352/6285/local/advertising.pdf>

2016 **Bogdanović group paper featured in “astrobites”**, daily astrophysics literature review of one interesting paper in a brief format.

Story title: *The Case of the Missing Giants*, 16 Feb 2016.

Written by: Jesse Feddersen (Yale U.)

<http://astrobites.org/2016/02/16/the-case-of-the-missing-giants/>

2016 **Featured in press release “Gravitational Waves Observed”**, 11 Feb 2016.

Written by: Jason Maderer (Georgia Tech Communications Office)

<http://www.news.gatech.edu/features/gravitational-waves-observed>

2015 **Featured in “XSEDE Highlights 2015”**, annual publication of the national XSEDE supercomputing facility featuring selected research projects enabled by supercomputing.

Story title: *Cosmic slurp*, Jul 2015.

<https://www.xsede.org/publications>

2014 **Featured in the “Academic minute”** a segment broadcasted by the WAMC Northeast Public Radio in Albany, NY. The Academic Minute features researchers from colleges and universities around the world. The module is syndicated to over 60 stations throughout North America. Hosted by Dr. Lynn Pasquerella, 21 Oct 2014.

<http://academicminute.org/2014/10/tamara-bogdanovic-georgia-tech-tidal-disruption/>

2014 **Featured story in the “NSF CS Bits & Bytes” Newsletter** for innovative Computer Science research, *Cosmic slurp*, vol 3, issue 4, May 21, 2014.

Written by: Aaron Dubrow (NSF CS science writer)

<http://www.nsf.gov/cise/csbytes/newsletter/vol3/pdf/csbb-vol3-i4.pdf>

2014 **Online NSF Discoveries article**, *Cosmic Slurp – Georgia Tech researchers use supercomputers to understand and predict signatures of black holes swallowing stars*
URL: http://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=130454&WT.mc_id=USNSF_1
Written by: Aaron Dubrow (NSF CS science writer), 14 Apr 2014.
Other coverage: GT News Center, Texas Advanced Computing Center, livescience.com, ScienceNewsline.com, etc.

2014 **Undergraduate Thomas Kieffer wins national Barry Goldwater Scholarship**
Georgia Tech press release, Mar 2014
<http://www.news.gatech.edu/2014/04/03/two-tech-students-named-goldwater-scholars>

2013 **Featured undergraduate physics project**, student: T. Forrest Kieffer.
Black Holes and Star Disruptions,
Recorded by: College of Science Communications Office, Georgia Tech, Apr 2013.
<http://www.youtube.com/watch?v=urENr4MmZ68&index=6&list=PLeMMbEVsxeGSLPg34BIerK1R.QCOTY8.Q>

2013 **Physics' Tamara Bogdanovic, Wins Sloan Fellowship**
Written by: David Terraso, College of Science Communications Office, Georgia Tech, Mar 2013
<http://www.cos.gatech.edu/news/Tamara-Bogdanovic-Wins-Sloan-Fellowship>

2013 **The Milky Way May Not Have Always Been Such a Peaceful Place**
Vanderbilt & Georgia Tech press release, 6 Mar 2013
<http://www.cos.gatech.edu/news/An-Active-Milky-Way>
Coverage: NSF News, PhysOrg.com, Universe Today, Science Daily, io9.com, Science 360, New Scientist, RedOrbit, UPI.

2007 **Why Are Galaxies Without Black Holes Uncommon?**
210th AAS Meeting & University of Maryland Press release, 29 May 2007
Coverage: UMD Newsdesk, Nature, Science, Sky&Telescope, Space.com, Scientific Frontline, Google, Astronomy.com, NewScientist.com, MSNBC.com, etc.

H. Other Professional Activities

H1. Professional Training and Development

- May 2016 BEST Faculty Birkman Workshop, Georgia Tech and Emory
 - *Mentoring Challenges*
- Apr 2016 BEST Faculty Birkman Workshop, Georgia Tech and Emory
 - *Career Choices*
- Feb 2016 CETL's Faculty Development Workshop, Georgia Tech
 - *Gathering & Responding to Feedback on your Teaching*
- Feb 2016 Innate Associations and Faculty Perceptions of Competence Workshop
 - *Facilitated by Julie Ancis and Paul Benkeser, Georgia Tech*
- Dec 2015 BEST Faculty Birkman Workshop, Georgia Tech and Emory
 - *Team Leadership: Birkman Method*
- Jul 2015 Physics and Astronomy New Faculty Workshop, College Park, MD

- *Implementation of the most effective, research-based teaching methods*

V. Teaching

A. Courses Taught (last 6 years)

Spring 2017	PHYS 4347 Fundamentals of Astrophysics	11 students
Fall 2016	PHYS 2213 Intro to Modern Physics	35 students
Fall 2015	PHYS 2213 Intro to Modern Physics	18 students
Spring 2015	PHYS 2213 Intro to Modern Physics	28 students
Fall 2014	PHYS 2212 Intro Physics II	150 students
Spring 2014	PHYS 8803 High Energy Astrophysics	6 students
Fall 2013	PHYS 2212 Intro Physics II	153 students
Fall 2012	PHYS 2212 Intro Physics II	168 students

B. Individual Student Guidance

B1. Ph.D. Students

1. Bryan Pflueger, third year Ph.D. student in Physics, Georgia Tech
Advisement: spring 2015 – present. Advanced to PhD candidacy: summer 2015.
◦ Thesis title: TBD
2. Yu Qiu, fourth year Ph.D. student in Physics, Georgia Tech
Advisement: spring 2014 – present. Advanced to PhD candidacy: summer 2014.
◦ Thesis title: *Accretion and Feedback from Supermassive Black Holes in Galaxy Clusters*
3. Khai Nguyen, fifth year Ph.D. student in Physics, Georgia Tech
Advisement: spring 2013 – present. Advanced to PhD candidacy: summer 2013.
◦ Thesis title: *Emission Signatures from Sub-parsec Binary Supermassive Black Holes*
4. Mark Avara, Ph.D. student in Astronomy, University of Maryland
Advisement: spring 2009 – summer 2012. Advanced to PhD candidacy: summer 2011.
◦ Co-advised with Prof. C. Reynolds while Bogdanović was postdoc at U. of Maryland.

B2. M.S. Students

1. Andrew Vu, M.S. in Physics (non-thesis), Georgia Tech, graduated: summer 2014.
◦ Started a teaching position in S. Korea in fall 2014.
2. Swapnil Baral, M.S. in Physics (non-thesis), Georgia Tech, graduated: summer 2013.
◦ Accepted to PhD program in Physics and Astronomy, University of Delaware.

B3. Undergraduate Students

1. Júlia Alsina Oriol, Mathematics and Physics Engineering, Universitat Politècnica de Catalunya-Barcelona Tech. Advisement: fall 2016 – spring 2017.
◦ Visiting student from Spain, completed her B.Sc. thesis in Bogdanović group.
◦ Thesis title: *Modeling relativistic effects in the light curves of tidal disruption events*
◦ Accepted to MSc program in physics at the Perimeter Institute (Waterloo, ON).
2. Alexander Buser, Physics and Math major, Georgia Tech. Advisement: 2015 – 2017.
◦ President’s Undergraduate Travel Award, January 2017 (Georgia Tech, \$500).

3. Ross Schlegel, Physics major, Georgia Tech. Advisement: fall 2015.
4. Jeffrey Miller, Physics and Math major, Georgia Tech. Advisement: 2015 – present.
 - President’s Undergraduate Travel Award, January 2017 (Georgia Tech, \$1000).
5. Thomas F. Kieffer, Physics and Math major, Georgia Tech. Advisement: 2013 – 2015.
 - Nickelson-Sutherland Prize given in recognition of excellence at the interface of mathematics and physics, Spring 2015 (Georgia Tech, College of Science)
 - Barry M. Goldwater Scholarship 2014 (National fellowship).
 - President’s Undergraduate Travel Award, January 2015 (Georgia Tech, \$1,000).
 - President’s Undergraduate Research Award Fall 2014 (Georgia Tech, \$1,500).
 - President’s Undergraduate Research Award Summer 2014 (Georgia Tech, \$1,500).
 - Now PhD student in Mathematics at Georgia Tech.
6. Zixin Jiang, Physics and Math major, Georgia Tech. Advisement: 2013 – 2014.
 - Nickelson-Sutherland Prize given in recognition of excellence at the interface of mathematics and physics, Spring 2016 (GT College of Science)
 - Hitohiro Fukuyo Memorial Scholarship Award, Spring 2016 (GT School of Physics)
 - Accepted to PhD program in Physics at UC Berkeley.
7. Jason Hwang, Astrophysics major, Pennsylvania State Univ. Advisement: 2008 – 2009.
 - Co-advised with Prof. M. Eracleous while Bogdanović was postdoc at U. of Maryland.
 - Now PhD student in Physics and Astronomy at Northwestern University.

B4. Service on Thesis and Dissertation Committees

1. Chao Shi (adviser: J. Wise), May 2017.
2. Karan Jani (adviser: D. Shoemaker), Mar, 2017 (Dissertation Committee chair).
3. Stavropoulos Athanasios (adviser: P. Laguna), fall 2016 – summer 2017
4. Kirk Barrow (adviser: J. Wise), summer 2016 – present
5. Raj Gohil (adviser: D. Ballantyne), summer 2016 – present
6. Thanh Nguyen (adviser: N. Otte), fall 2015 – present.
7. Matthew Kinsey (adviser: P. Laguna), 2015 – 2016.
8. Qi Ge (adviser: J. Wise), summer 2015 – present.
9. Gregory Richards (adviser: N. Otte), summer 2014 – present.
10. Daegene Koh (adviser: J. Wise), summer 2014 – 2017.
11. Lionel London (adviser: D. Shoemaker), 2013 – 2015 (Dissertation Committee chair).

B5. Mentorship of Postdoctoral Fellows and Visiting Scholars

1. Dr. KwangHo Park, 2014 – present.
2. Dr. Roseanne Cheng, 2012 – 2014.
 - Now postdoctoral researcher in astrophysics at Johns Hopkins University.

B6. Mentorship of Women in Science

These activities are directed towards female undergraduate and graduate students with the goal to increase the representation and retention of women in science.

- Mentorship within the Society of Women in Physics at Georgia Tech
 1. Yoko (Sarah) Nakama (undergraduate), 2016 – 2017.
 2. Katherine Napier (undergraduate), 2015 – 2017.
 3. Madeline Lazar (undergraduate), 2015 – 2016.
 4. Emily Alicea-Munoz (graduate), 2014 – 2015.
 5. Mary Elizabeth Lee (undergraduate), 2014 – 2015.
- WST undergraduate mentor in the Women, Science and Technology Learning Community at Georgia Tech, 2014 – 2016.

B7. Academic Advising of Physics Undergraduates

Each physics freshmen has an academic adviser in the GT School of Physics who remains their point of contact until graduation.

1. Daniel Finkel, 2016 –
2. Richard Udall, 2016 –
3. Andrew Alsup, 2016 –
4. Matthew Pellock, 2016 –
5. Jonathan Jeffrey, 2017 –

C. Other Teaching Activities

Developed following courses and lectures about applications and research opportunities in astrophysics:

2017 – Developed a new edition of PHYS 4347: *Fundamentals of Astrophysics* course for undergraduate physics majors with focus on theoretical and high energy astrophysics

Apr 2016 – Presentation about research opportunities in theoretical astrophysics during a graduate student recruiting event at the Georgia Tech School of Physics

Sep 2014 – Guest lecture in PHYS 4147 featuring applications of relativity in astrophysics

Apr 2014 – Guest lecture at the CoS Open House "EXPLORE Science and Math": Research opportunities for undergraduates

Sep 2013 – Guest lecture in PHYS 4601A: Research opportunities for graduates

Sep 2012 – Guest lecture in PHYS 4601A: Research opportunities for graduates

VI. Service

A. Professional Contributions

A1. Meeting Organization

2017 – Conference on *The Quest for Multiple Supermassive Black Holes: A Multi-Messenger View* (20–24 Nov 2017, Lorentz Center, Leiden, Netherlands), member, Scientific Organizing Committee

- 2016 – *A Multi-messenger View of Mergers and Multiple Supermassive Black Holes*, organized as a part of the European Week of Astronomy and Space Science 2016 Meeting, (4–8 Jul 2016, Athens, Greece), member, Scientific Organizing Committee
- 2016 – *Conference for Undergraduate Women in Physics* (15–17 Jan 2016, Georgia Tech, Atlanta, GA), member, Local Organizing Committee
- 2015 – Conference on *The Physics of Supermassive Black Hole Formation and Feedback* (12–14 Oct 2015, Annapolis, MD), member, Scientific Organizing Committee
- 2015 – Conference on *Compact Objects as Astrophysical and Gravitational Probes* (2–6 Feb 2015, Lorentz Center, Leiden, Netherlands), member, Scientific Organizing Committee
- 2013 – *AstroGR@Atlanta* meeting (18–22 Nov 2013, Georgia Tech, Atlanta, GA), Chair, Scientific Organizing Committee
- 2013 – Conference on *Massive Black Holes: Birth, Growth and Impact*, (5–8 Aug 2013, Kavli Institute for Theoretical Physics, Santa Barbara, CA), member, Scientific Organizing Committee
- 2013 – *A Universe of Black Holes program*, (1 Jul–20 Sep 2013, Kavli Institute for Theoretical Physics, Santa Barbara, CA), member, Scientific Organizing Committee
- 2012 – *Xtreme Astrophysics @ CRA* meeting (27–28 Aug 2012, Georgia Tech, Atlanta, GA), member, Scientific Organizing Committee

A2. Peer Review

- Jun 2017 Chandra Cycle 9, proposal review panelist
- Mar 2017 NSF Astronomy and Astrophysics Grants Prog., proposal review panelist
- Dec 2016 Platform for Advanced Scientific Computing 2017, review of mini-symposium proposal
- Oct 2016 NASA Astrophysics Theory Program, proposal review panelist
- Sep 2016 Research Corporation for Science Advancement, external peer reviewer
- Sep 2016 Netherlands Organisation for Scientific Research, external peer reviewer
- May 2016 Hubble Space Telescope Cycle 24, external peer reviewer
- Jan 2016 NSF Experimental Gravitational Physics, proposal review panelist
- Jun 2015 Hubble Space Telescope Cycle 23, proposal review panelist
- Oct 2014 NASA Astrophysics Theory Program, proposal review panelist
- May 2014 Swiss National Science Foundation, external peer reviewer
- Apr 2014 NSF Astronomy and Astrophysics Grants Prog., proposal review panelist
- May 2011 Hubble Space Telescope Cycle 19, proposal review panelist
- May 2010 NSF Astronomy and Astrophysics Grants Prog., proposal review panelist

Journals Served as a referee for the following scientific journals (past 10 years):
 Astronomy & Astrophysics, Astrophysical Journal, Monthly Notices of the Royal Astronomical Society, Nature, Physical Review D, Physical Review Letters, Research in Astronomy and Astrophysics, Science

A3. Professional Memberships and Associations

- 2017 – 2020 External member of the European VLBI Network Science Study Team
- 2017 – 2019 Warner / Pierce Prize Committee member, American Astronomical Society

- 2015 – pres. Member of the Science Study Team Working Group on “The close environments of supermassive black holes” for the future international X-ray observatory *Athena*.
- 2013 – pres. Member of MAGNA international team working on ”Multiple AGN Activity”
- 2013 – pres. Member of the eLISA Working Group on Astrophysical Black Holes
- 2012 – pres. Member of the American Physical Society
- 2012 – pres. Member of the Center for Relativistic Astrophysics, Georgia Tech
- 2001 – pres. Member of the American Astronomical Society
- 2011 – 2012 JSI Scientist – Member of the Joint Space Science Institute, MD
- 2006 – 2012 Member of the Center for Theory and Computation, Univ. of Maryland
- 2003 – 2006 Member of the Center for Gravitational Wave Physics, Penn State

B. Public and Community Service

B1. Public Lectures and Outreach

- 2017 Presentation and demo for members of the American Association of Physics Teachers
- 2016 Presentation for the Georgia Tech *Society of Physics Students*
- 2014 Poster presentation for *Science at the Bistro* CRA public event with Dr. M. Eracleous
- 2013 Poster presentation for *Science at the Bistro* CRA public event with Dr. M. Bojowald
- 2013 Public talk, Atlanta Astronomy Club
- 2012 Public talk, Inquiring Minds @ Tech talk series
- 2010 Public talk, National Capital Astronomers
- 2010 Public talk, University of Maryland Observatory Open House
- 2007 Public talk, University of Maryland Observatory Open House
- 2005 Presentation for the Penn State Board of Visitors (represented graduate research)
- 2005 Public talk, ”The Big Picture” talk series, Penn State
- 2005 Served as a judge in the Graduate Exhibition, Penn State
- 2005 Poster presentation at the Space Day, Penn State
- 2003 Poster presentation in the Graduate Exhibition, Penn State
- 2003–05 Participated in the Astronomy Open House public events, Penn State
- 2001–06 Participated in the AstroFest annual public event, Penn State

C. Institute Contributions

C1. School-related Service

- 2017 Lead organizer of the Physics Education Research Colloquium mini-series
- 2016 – pres. SoP Undergraduate Faculty Adviser
- 2016 Hiring committee, SoP Financial Manager – member (Sep)
- 2016 – pres. SoP Committee on Introductory Physics Program
- 2016 – pres. SoP academic adviser for 5 physics undergraduates
- 2015 – pres. SoP Faculty Advisory Committee – member
- 2015 – 2016 SoP Learning Assessment Committee – member
- 2014 – 2015 SoP Task Force for review of introductory physics classes – member
- 2014 – pres. Society of Women in Physics at Georgia Tech, founding member
- 2013 – 2014 SoP Awards Committee member
- 2013 – 2014 SoP Colloquium Committee member
- 2012 – 2013 CRA postdoc hiring committee member

C2. College/Institute-related Service

- 2017 SoP faculty representative at the CoS Chairs Meeting (Apr)
- 2017 Panelist at the GT Career, Innovation, and Research Development Conference
- 2017 – 2018 CoS Provost Teaching and Learning Fellow
- 2016 SoP faculty representative at the CoS Advisory Board Meeting (Oct)
- 2014 – pres. Advisory Council for the Office of Postdoctoral Services, member
- 2014 Organized CoS ADVANCE Lecture with Dr. Rachel Ivie (AIP) on status of women in Physics and Astronomy (Oct).
- 2014 SoP faculty representative and presenter during the event with Dr. Fleming Crim, assistant director of the NSF Math & Physical Sciences Directorate (Jun).
- 2014 Faculty representative at the CoS Open House for prospective undergraduate students and their families: *EXPLORE Science and Math* (Apr)
- 2013 Working group tasked with initiation of the CoS postdoctoral organization, member.
- 2012 Physics faculty representative at the CoS Advisory Board Meeting (Oct).