

Kelly D. Denney – Curriculum Vitae

Ohio State University
140 W. 18th Ave.
Columbus, OH 43210, USA

kellyd.denney@gmail.com
<http://www.astronomy.ohio-state.edu/~denney/>
(614)688-7426 (office)

Personal

Citizenship: USA

Research Interests: Active galactic nuclei, black hole masses, broad line region geometry and kinematics, reverberation mapping, cosmic distance measures, galaxy evolution

Education and Professional Preparation

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| Postdoctoral Fellow | <i>The Ohio State University</i> | Oct 2013–present |
| Postdoctoral Fellow | <i>Niels Bohr Institute, Dark Cosmology Centre</i> | Jan 2011–Sep 2013 |
| Postdoctoral Associate | <i>The Ohio State University</i> | Sept–Dec 2010 |
| Ph.D., Astronomy | <i>The Ohio State University</i> | June 2010 |
| – Thesis: <i>Masses of Black Holes in Active Galactic Nuclei</i> , advisor B.M. Peterson | | |
| M.S., Astronomy (GPA 3.9) | <i>The Ohio State University</i> | Aug. 2006 |
| B.A., Astronomy & Physics (GPA 3.9, with Honors) | <i>Boston University</i> | May. 2004 |

Employment and Financial Support

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| NSF Astronomy & Astrophysics Postdoctoral Fellow | <i>The Ohio State University</i> | (Oct 2013–present) |
| Marie Curie Incoming International Fellow | <i>DARK/NBI</i> | (Mar 2012–Oct 2013) |
| DARK Postdoctoral Fellow | <i>DARK/NBI</i> | (Jan 2011–Feb 2012) |
| Postdoctoral Research Associate | <i>The Ohio State University</i> | (Sept–Dec 2010) |
| Presidential Fellow | <i>The Ohio State University</i> | (2009–2010) |
| Graduate Research Assistant | <i>The Ohio State University</i> | (2006–2009) |
| National Science Foundation GK-12 Fellow | <i>The Ohio State University</i> | (2005–2006) |
| Graduate Teaching Assistant | <i>The Ohio State University</i> | (2004–2005) |
| National Science Foundation GK-12 Fellow | <i>Boston University</i> | (2003–2004) |
| Buck Scholar, full tuition support | <i>Boston University</i> | (2002–2004) |
| University Scholar, half tuition support | <i>Boston University</i> | (2000–2004) |
| Undergraduate Research Assistant | <i>Boston University</i> | (2000–2003) |

Honors and Awards

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| NSF AAPF Fellowship, OSU | 2013 |
| Marie Curie Fellowship, DARK/NBI | 2012 |
| Watson et al. 2011 (AGN distances) is 4th best breakthrough of 2011 by Physics World magazine | 2011 |
| DARK Fellowship, DARK/NBI | 2011 |
| Presidential Fellowship, OSU | 2009 |
| The Allan Markowitz Graduate Award for Excellence in Observational Astronomy, OSU | 2009 |
| Edward F. Hayes Graduate Research Forum, First Place, OSU | 2009 |
| NSF Graduate Research Fellowship Program, Honorable Mention | 2006 |
| NSF GK-12 Fellowship, OSU | 2005 |
| Graduated <i>Summa cum Laude</i> , BU | 2004 |
| Outstanding Student in Space Physics, BU | 2004 |
| NSF GK-12 Fellowship, BU | 2003 |
| Buck Scholarship, BU | 2002 |
| University Scholarship, BU | 2000 |

Invited and Contributed Attendance

Invited Talks:

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| 13. Drexel University Physics Department Colloquium | February 2015 (upcoming) |
| 12. University of Florida Astro. Colloquium | February 2014 |
| 11. Bash Symposium, UT Austin, Invited Review | October 2013 |
| 10. Durham University Seminar | September 2013 |
| 9. European Week of Astronomy & Space Science, Invited Review | July 2013 |
| 8. 9th Serbian Conf. on Spectral Line Shapes in Astrophysics, Serbia | May 2013 |
| 7. UC Santa Barbara Astrophysics Seminar | May 2013 |
| 6. UC Santa Cruz FLASH seminar | April 2013 |
| 5. JPL Astrophysics Colloquium | January 2013 |
| 4. Gemini North AO Workshop, Victoria, BC | June 2012 |
| 3. Georgia State University Astronomy Colloquium | October 2011 |
| 2. St. Andrews University Astronomy Colloquium | August 2011 |
| 1. Lund Observatory Seminar Series | June 2011 |

Contributed Talks:

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| 11. OSU Center for Cosmology and Astro-particle Physics Summer Seminar Series | June 2014 |
| 10. AAS Meeting #223, Washington D.C. | January 2014 |
| 9. NSF AAPF Symposium, Washington D.C. | January 2014 |
| 8. Xshooter Legacy Survey Collaboration meeting, Copenhagen, DK | November 2013 |
| 7. AAS Meeting #221, contributed Oral Session presentation, Long Beach, CA | January 2013 |
| 6. Nuclei of Seyfert Galaxies and QSOs Workshop, Bonn, Germany | November 2012 |
| 5. Improving Black Hole Masses in AGNs Workshop, Copenhagen, Denmark | July 2012 |
| 4. Narrow-Line Seyfert 1 Galaxies Conference, Milan, Italy | April 2011 |
| 3. AAS Meeting #215, dissertation talk, Washington D.C. | January 2010 |
| 2. MDM Observatory Consortium Meeting, Columbia University | May 2009 |
| 1. Edward F. Hayes Graduate Research Forum (prize-winning), OSU | April 2009 |

Other Contributions:

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| 4. Aspen Center for Physics Workshop; selected participant | September 2014 |
| 3. STScI Cosmic Distance Scale Workshop; poster | March 2014 |
| 2. DARK Vernissage, Copenhagen, DK; award-winning poster | March 2013 |
| 1. AAS Meeting #219, Austin, TX; contributed poster | January 2012 |

Grants

- **2010: HST Cycle 18 Archival Project, award \$25,094** CO-I
“Does the C IV Emission Line in AGN Spectra Yield Accurate Black Hole Mass Estimates?”
- **2011: EU Marie Curie Actions–International Incoming Fellowship 300553, award €238,069** PI
“Advancements in Black Hole Physics with Echo Mapping Experiments”
- **2013: NSF AAPF AST-1302093, award \$267,000** PI
“Probing Galaxy Evolution with Active Galaxies at High Redshift”

Teaching and Mentoring Experience

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| Co-advisor for OSU PhD student, M. Fausnaugh, with B.M. Peterson | (2013–present) |
| Co-advisor for DARK PhD student, E. Kilerci-Eser, with M. Vestergaard | (2011–present) |
| Co-advisor for <i>U. of Queensland</i> PhD student, A.L. King, with T. M. Davis | (2011–present) |
| NSF GK-12 Fellow, Maize Elementary School, 4 th grade science | (2005–2006) |
| Teaching Assistant, Intro. Astronomy for B. S. majors, OSU | 2005 |
| Teaching Assistant, Intro. Astronomy for B. A. majors, OSU | (2004–2005) |
| GK-12 Physics Fellow, Boston Latin School and South Boston High School, Physics | (2003–2004) |

Professional Activities

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| Panel Member: <i>Chandra</i> Cycle 16 Peer-Review Panel | 2014 |
| Member: The American Astronomical Society | (2009–present) |
| Member: International Astronomy Union | (2012–present) |
| Member: Phi, Beta, Kappa | (2004–present) |
| Referee: <i>The Astrophysical Journal</i> | (2010–present) |
| Referee: <i>Monthly Notices of the Royal Astronomical Society</i> | (2011–present) |
| Referee: <i>Astronomy & Astrophysics</i> | (2011–present) |
| Referee: <i>Advances in Space Research</i> | (2013–present) |
| DARK: Research and Hiring Committee | (2011–2012) |
| DARK: PhD Programme Oversight Committee for 2 students | (2011–2013) |
| DARK: astro-ph discussion moderator | (2011–2013) |
| DARK: DARKtime Committee (https://darkblog.dark-cosmology.dk/groups/darktime/) | (2012–2013) |
| OSU: Center for Cosmology and Astro-particle Physics Summer Seminar Series Organizer | 2014 |
| OSU: Initiator (2008) and Organizer of the Graduate Student Summer Colloquium Series | (2008–2010) |

Observing Experience; Successful PI Telescope Programs

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| Bok Telescope; 90Prime photometry: Support Observations for SDSS-Reverberation Mapping Project | 5 nights, 2014 June |
| VLT; Xshooter spectroscopy: CIV-based masses of high-z quasars, plus other GTO programs | 6 nights, P89 |
| Reverberation Mapping of a Gravitationally Lensed Quasar | 61.2 hr, P92–P95 |
| Gemini Observatory; GMOS-IFU: Reverberation Mapping of a Gravitationally Lensed Quasar | 24.1hrs, 2013B |
| Reverberation Mapping of a Gravitationally Lensed Quasar (cont.) | 14.4hrs, 2014A |
| MDM 1.3m telescope; spectroscopy: Spectral Atlas of Reverberation Mapped AGNs | ~45 nights, 2006-08 |
| 2005, 2007, 2014 Reverberation Mapping Campaigns | ~25 nights |
| Contributing observations of Catalina Transient Object | 1 night, 2008 Nov. |
| Nordic Optical Telescope; photometry: Can Reverberation Mapping Really Be Done with Filter Photometry? | 30hrs, P45 |
| Nordic Optical Telescope; spectroscopy: Probing Black Hole Mass Biases with Lensed Quasars | 1.3 nights, P46 |
| Decomposing Broad and Narrow Emission Lines in AGN with High-Res. Spectroscopy | 4 hrs, P46 |

Selected Public Outreach and Popular Media Contributions

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| NSF AAPF Projects: | |
| Public Telescope Lending Library | 2014–current |
| Mobile Astronomy Instruction and Lesson (MAIL) Boxes | 2014–current |
| Interviewed by Popular Media: | |
| Danish research magazine <i>Videnskab</i> | 2011 |
| <i>Science News</i> | 2011 |
| <i>New Scientist</i> | 2011 |
| <i>PhysicsWorld.com</i> (a website from the Institute of Physics) | 2011 |
| Invited Guest Lecturer: | |
| Compact Objects, DARK, graduate programme | 2011 |
| Inspirational Speaker, Intro. to Cosmology, DARK | 2011–2012 |
| Hilliard-Davidson High School | 2009 |
| Astronomy 142: Black Holes, OSU | 2008–2010 |
| Ohio Premier Academy | 2007 |
| Public Talks: | |
| OSU Planetarium Presenter | 2006–2010 |
| OSU <i>Astronomy On Tap</i> | 2014 January |
| New Vistas in Astronomy, Perkins Observatory | 2014 June |
| Teacher Professional Development Workshops — Organizer and Presenter: | |
| Inquiry into Astronomy, COSI Columbus | 2010 |
| Inquiry into Physical and Chemical Changes in Cooking, COSI Columbus | 2008 |