

Isabella Lamperti

PERSONAL DETAILS

<i>Address</i>	European Southern Observatory Karl-Schwarzschild-Strasse 2 85748 Garching bei München Germany
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<i>E-Mail</i>	isabellalamperti@gmail.com
<i>Languages:</i>	Italian (mother tongue), English (fluent), German (conversational), French (basic)
<i>Citizenship:</i>	Swiss, Italian

EDUCATION & RESEARCH EXPERIENCE

Ph.D. Studentship (1 year), European Southern Observatory, Germany Sept. 2019-present
Supervisor: Dr. Vincenzo Mainieri
Project Title: *Integrated and spatially resolved dust properties of AGN hosts at $z \sim 2$*

Ph.D. in Astrophysics, University College London, UK Nov. 2016-present
Supervisor: Dr. Amélie Saintonge
Thesis Title: *Dust properties of nearby galaxies*

Research Project, Swinburne University of Technology, Australia Aug.-Oct. 2016
Supervisor: Dr. Deanne Fisher and Prof. Karl Glazebrook
Project Title: *Ages of massive star forming clumps in turbulent disks from $H\alpha$ equivalent widths in the DYNAMO survey*

M.Sc. in Physics, ETH Zürich, Switzerland 2014-2016
Supervisors: Dr. Michael Koss and Prof. Kevin Schawinski
Thesis Title: *Near-infrared spectroscopy of nearby hard X-ray selected AGN*

B.Sc. in Physics, ETH Zürich, Switzerland 2010-2014
Supervisors: Dr. Michael Koss and Prof. Kevin Schawinski
Project Title: *Measurement of the accretion rate of nearby hard X-ray selected AGN using optical spectroscopy*

TEACHING

Marking of Physics exercises, University College London 2017-2019
Introduction to Astronomy, Atomic Physics
Teaching Assistant at the Department of Mathematics, ETH Zürich 2013-2016
Mathematics I and II for architects

SEMINARS AND TALKS

University College London, London, UK, *Lunch talk* Jan. 2019
University of Central Lancashire, Preston, UK, *Departement seminar* Dec. 2018
University of Southampton, Southampton, UK, *Lunch talk* May 2017
Durham University, Durham, UK, *Lunch talk* March 2017
University of Cambridge, Cambridge, UK, *Talk at the X-ray bunclub* Feb. 2017

CONFERENCES ATTENDED

Dusting the Universe , Tucson, AZ, USA	March 2019
Contributed talk: <i>Dust properties of nearby galaxies from the JINGLE survey inferred from hierarchical Bayesian SED fitting</i>	
The Laws of Star-Formation , Cambridge, UK	July 2018
Poster presentation	
KIAA Forum of Gas in Galaxies , Peking University, China	June 2018
Poster presentation	
European Week of Astronomy and Space Science (EWASS) , Liverpool, UK	April 2018
Poster presentation	
Elusive AGN in the Next Era , Fairfax, VA, USA	June 2017
Contributed talk: <i>Near-infrared spectroscopy of nearby hard X-ray selected AGN</i>	

OBSERVING EXPERIENCE

JCMT: 10 nights SCUBA-2 and RxA observations for the JINGLE survey (2017-2018)
IRAM 30m telescope: seven nights CO spectroscopy for the xCOLD GASS survey (2017), seven nights continuum observations during NIKA-2 observing pool week (2018).

ACCEPTED PROPOSALS

IRAM 30m/NIKA-2: as P.I., Title: *Characterizing the millimeter emission in nearby galaxies with NIKA-2*, 20.9 hours, 2018
Magellan/FIRE: P.I.: E. Treister, Title: *The BASS is on FIRE: Near-IR Spectroscopy of hard-X selected AGN in the local Universe*, 1 night, 2018
VLT: P.I.: K. Oh, Title: *Completing A Census of Black Hole Accretion Rates in the Local Universe through Optical Spectroscopy*, VLT, 31 hours of FORS2 and 37 hours of XSHOOTER, filler program, 2016

PROGRAMMING SKILLS

Python, L^AT_EX, C++ (basic), Softwares: pPXF, PyStan, emcee

AWARDS AND GRANTS

Royal Astronomical Society Travel Grant, £660	2018
Swiss Society for Astrophysics and Astronomy (SSAA) Travel Grant for young scientist, £680	2017

OTHERS

Organizer of the Lunch Talks of the Astronomy group at UCL	Spring semester 2019
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PUBLICATIONS

Summary as of 26/10/2019 according to ADS:

Number of refereed publications: 21

Number of refereed publications as first author: 2

Refereed citations: 318

h-index: 12

Submitted papers

1. *The CO(3-2)/CO(1-0) luminosity line ratio in nearby star-forming galaxies and AGN from xCOLD GASS, BASS and SLUGS*
Lamperti, I., Saintonge, A., Koss, M., Viti, S., Wilson, D. C., He, H., Shimizu, T., Greve, T., Kramer, C., Mushotzky, R., Sanders, D., Schawinski, K., Tacconi, L. J., and Treister, E.
submitted to ApJ, [link to the paper draft](#):
<https://drive.google.com/open?id=1NspBL4grHIFaeXHZQsYYuhukrBImN3UE>

List of publications

First-author papers:

2. *JINGLE V: Dust properties of nearby galaxies derived from hierarchical Bayesian SED fitting*
Lamperti, I., Saintonge, A., De Looze, I., Accurso, A., Smith, M. W. L., Clark, C.J. R., Wilson, C. D., Xiao, T., Hwang, H. S., Lin, L., Sargent, M., Bureau, M., Brinks, E., Clements, D. L., Eales, S., Williams, T. G., Brown, T., Yang, C., Michaowski, M. J., Lee, J. C., and Glass, D. H. W.
Monthly Notices of the Royal Astronomical Society, in press (2019), arXiv.....

1. *BAT AGN Spectroscopic Survey - IV: Near-Infrared Coronal Lines, Hidden Broad Lines, and Correlation with Hard X-ray Emission.*
Lamperti, I., Koss, M., Trakhtenbrot, B., Schawinski, K., Ricci, C., Oh, K., Landt, H., Riffel, R., Rodríguez-Ardila, A., Gehrels, N., Harrison, F., Masetti, N., Mushotzky, R., Treister, E., Ueda, Y., and Veilleux, S. .
Monthly Notices of the Royal Astronomical Society, 467, 540-572 (2017)

Other publications:

19. *BAT AGN Spectroscopic Survey - XIII. The nature of the most luminous obscured AGN in the low-redshift universe*
Bär, R. E., Trakhtenbrot, B., Oh, K., Koss, M. J., Wong, O. I., Ricci, C., Schawinski, K., Weigel, A. K., Sartori, L.F., Ichikawa, K., Secrest, N. J., Stern, D., Pacucci, F., Mushotzky, R., Powell, M. C.; Ricci, F., Sani, E., Smith, K. L., Harrison, F. A., **Lamperti, I.**, Urry, M.C.
Monthly Notices of the Royal Astronomical Society, in press. (2019), arXiv:1908.07546
18. *BAT AGN Spectroscopic Survey. XVI. General Physical Characteristics of BAT Blazars*
Paliya, Vaidehi S., Koss, M., Trakhtenbrot, B., Ricci, C., Oh, K., Ajello, M., Stern, D., Powell, M. C., Urry, C. M., Harrison, F., **Lamperti, I.**, Mushotzky, R., Marcotulli, L., Mejía-Restrepo, J., Hartmann, D.
The Astrophysical Journal, 881, 154 (2019)
17. *JINGLE, a JCMT legacy survey of dust and gas for galaxy evolution studies - II. SCUBA-2 850 μ m data reduction and dust flux density catalogues*
Smith, M. W. L., Clark, C. J. R., De Looze, I., **Lamperti, I.**, Saintonge, A., Wilson, C. D., Accurso, G., Brinks, E., Bureau, M., Chung, E. J., Cigan, P. J., Clements, D. L., Dharmawardena, T., Fanciullo, L., Gao, Y., Gao, Y., Gear, W. K., Gomez, H. L., Greenslade, J., Hwang, H. S., Kemper, F., Lee, J. C., Li, C., Lin, L., Liu, L., Molnr, D. C., Mok, A., Pan, H., Sargent, M., Scicluna, P., Smith, C. M. A., Urquhart, S., Williams, T. G., Xiao, T., Yang, C., Zhu, M.
Monthly Notices of the Royal Astronomical Society, 486(3), 4166-4185 (2019)

16. *NuSTAR and Keck Observations of Heavily Obscured Quasars Selected by WISE*
Yan, W., Hickox, R. C., Hainline, K. N., Stern, D., Lansbury, G., Alexander, D. M., Hviding, R. E., Roberto J. Assef, R. J., Ballantyne, D. R., Dipompeo, M. A., Lanz, L., Carroll, C. M., Koss, M., **Lamperti, I.**, Civano, F., Del Moro, A., Gandhi, P., and Myers, A. D.
The Astrophysical Journal, 870, 33 (2019)
15. *JINGLE, a JCMT legacy survey of dust and gas for galaxy evolution studies - I. Survey overview and first results.*
Saintonge, A., Wilson, C. D., Xiao, T., Lin, L., Hwang, H. S., Tosaki, T., Bureau, M., Cigan, P. J., Clark, C. J. R., Clements, D. L., De Looze, I., Dharmawardena, T., Gao, Y., Gear, W. K., Greenslade, J., **Lamperti, I.**, Lee, J. C., Li, C., Michalowski, M. J., Mok, A., Pan, H.-A., Sansom, A. E., Sargent, M., Smith, M. W. L., Williams, T., Yang, C., Zhu, M., Accurso, G., Barmby, P., Brinks, E., Bourne, N., Brown, T., Chung, A., Chung, E. J., Cibinel, A., Coppin, K., Davies, J., Davis, T. A., Eales, S., Fanciullo, L., Fang, T., Gao, Y., Glass, D. H. W., Gomez, H. L., Greve, T., He, J., Ho, L. C., Huang, F., Jeong, H., Jiang, X., Jiao, Q., Kemper, F., Kim, J. H., Kim, M., Kim, T., Ko, J., Kong, X., Lacaille, K., Lacey, C. G., Lee, B., Lee, J. H., Lee, W.-K., Masters, K., Oh, S.-H., Papadopoulos, P., Park, C., Park, S.-J., Parsons, H., Rowlands, K., Scicluna, P., Scudder, J. M., Sethuram, R., Serjeant, S., Shao, Y., Sheen, Y.-K., Shi, Y., Shim, H., Smith, C. M. A., Spekkens, K., Tsai, A.-L., Verma, A., Urquhart, S., Violino, G., Viti, S., Wake, D., Wang, J., Wouterloot, J., Yang, Y., Yim, K., Yuan, F., and Zheng, Z. .
Monthly Notices of the Royal Astronomical Society, 481(3), 3497-3519 (2018)
14. *BAT AGN Spectroscopic Survey - XII. The relation between coronal properties of active galactic nuclei and the Eddington ratio.*
Ricci, C., Ho, L. C., Fabian, A. C., Trakhtenbrot, B., Koss, M. J., Ueda, Y., Lohfink, A., Shimizu, T., Bauer, F. E., Mushotzky, R., Schawinski, K., Paltani, S., **Lamperti, I.**, Treister, E., and Oh, K.
Monthly Notices of the Royal Astronomical Society, 480, 1819-1830 (2018)
13. *BAT AGN Spectroscopic Survey. VIII. Type 1 AGN with Massive Absorbing Columns.*
Shimizu, T. T., Davies, R. I., Koss, M., Ricci, C., **Lamperti, I.**, Oh, K., Schawinski, K., Trakhtenbrot, B., Burtscher, L., Genzel, R., Lin, M.-y., Lutz, D., Rosario, D., Sturm, E., and Tacconi, L. .
The Astrophysical Journal, 856, 154 (2018)
12. *xCOLD GASS: The Complete IRAM 30 m Legacy Survey of Molecular Gas for Galaxy Evolution Studies.*
Saintonge, A., Catinella, B., Tacconi, L. J., Kauffmann, G., Genzel, R., Cortese, L., Davies, R., Fletcher, T. J., Graci a-Carpio, J., Kramer, C., Heckman, T. M., Janowiecki, S., Lutz, K., Rosario, D., Schiminovich, D., Schuster, K., Wang, J., Wuyts, S., Borthakur, S., **Lamperti, I.**, and Roberts- Borsani, G. W..
The Astrophysical Journal Supplement Series, 233, 22 (2017)
11. *BAT AGN Spectroscopic Survey - V. X-Ray Properties of the Swift/BAT 70-month AGN Catalog.*
Ricci, C., Trakhtenbrot, B., Koss, M. J., Ueda, Y., Del Vecchio, I., Treister, E., Schawinski, K., Paltani, S., Oh, K., **Lamperti, I.**, Berney, S., Gandhi, P., Ichikawa, K., Bauer, F. E., Ho, L. C., Asmus, D., Beckmann, V., Soldi, S., Balokovic, M., Gehrels, N., and Markwardt, C. B.
The Astrophysical Journal Supplement Series, 233, 17 (2017a)
10. *BAT AGN Spectroscopic Survey - I. Spectral Measurements, Derived Quantities, and AGN Demographics.*
Koss, M., Trakhtenbrot, B., Ricci, C., **Lamperti, I.**, Oh, K., Berney, S., Schawinski, K., Balokovic, M., Baronchelli, L., Crenshaw, D. M., Fischer, T., Gehrels, N., Harrison, F., Hashimoto, Y., Hogg, D., Ichikawa, K., Masetti, N., Mushotzky, R., Sartori, L., Stern, D., Treister, E., Ueda, Y., Veilleux, S., and Winter, L.
The Astrophysical Journal, 850(1),74 (2017)
9. *The close environments of accreting massive black holes are shaped by radiative feedback.*
Ricci, C., Trakhtenbrot, B., Koss, M. J., Ueda, Y., Schawinski, K., Oh, K., **Lamperti, I.**,

- Mushotzky, R., Treister, E., Ho, L. C., Weigel, A., Bauer, F. E., Paltani, S., Fabian, A. C., Xie, Y., and Gehrels, N.
Nature, 549(7), 488-491 (2017b)
8. *BAT AGN Spectroscopic Survey (BASS) - VI. The $\Gamma_X - L/L_{Edd}$ relation.*
Trakhtenbrot, B., Ricci, C., Koss, M. J., Schawinski, K., Mushotzky, R., Ueda, Y., Veilleux, S., **Lamperti, I.**, Oh, K., Treister, E., Stern, D., Harrison, F., Balokovic, M., and Gehrels, N..
Monthly Notices of the Royal Astronomical Society, 470(1), 800-814 (2017)
 7. *The NuSTAR Serendipitous Survey: Hunting for the Most Extreme Obscured AGN at > 10 keV.*
Lansbury, G. B., Alexander, D. M., Aird, J., Gandhi, P., Stern, D., Koss, M., **Lamperti, I.**, Ajello, M., Annuar, A., Assef, R. J., Ballantyne, D. R., Balokovic, M., Bauer, F. E., Brandt, W. N., Brightman, M., Chen, C. T. J., Civano, F., Comastri, A., Del Moro, A., Fuentes, C., Harrison, F. A., Marchesi, S., Masini, A., Mullaney, J. R., Ricci, C., Saez, C., Tomsick, J. A., Treister, E., Walton, D. J., and Zappacosta, L. .
The Astrophysical Journal, 846(1), 20 (2017)
 6. *The weak Fe fluorescence line and long-term X-ray evolution of the Compton-thick active galactic nucleus in NGC 7674.*
Gandhi, P., Annuar, A., Lansbury, G. B., Stern, D., Alexander, D. M., Bauer, F. E., Bianchi, S., Boggs, S. E., Boorman, P. G., Brandt, W. N., Brightman, M., Christensen, F. E., Comastri, A., Craig, W. W., Del Moro, A., Elvis, M., Guainazzi, M., Hailey, C. J., Harrison, F. A., Koss, M., **Lamperti, I.**, Malaguti, G., Masini, A., Matt, G., Puccetti, S., Ricci, C., Rivers, E., Walton, D. J., and Zhang, W. W..
Monthly Notices of the Royal Astronomical Society, 467, 4606-4621 (2017)
 5. *BAT AGN Spectroscopic Survey - III. An observed link between AGN Eddington ratio and narrow-emission-line ratios.*
Oh, K., Schawinski, K., Koss, M., Trakhtenbrot, B., **Lamperti, I.**, Ricci, C., Mushotzky, R., Veilleux, S., Berney, S., Crenshaw, D. M., Gehrels, N., Harrison, F., Masetti, N., Soto, K. T., Stern, D., Treister, E., and Ueda, Y..
Monthly Notices of the Royal Astronomical Society, 464, 1466-1473 (2017)
 4. *Determining the radio active galactic nuclei contribution to the radio-far-infrared correlation using the black hole Fundamental Plane relation.*
Wong, O. I., Koss, M. J., Schawinski, K., Kapińska, A. D., **Lamperti, I.**, Oh, K., Ricci, C., Berney, S., and Trakhtenbrot, B..
Monthly Notices of the Royal Astronomical Society, 460, 1588-1597 (2016)
 3. *NuSTAR Resolves the First Dual AGN above 10 keV in SWIFT J2028.5+2543.*
Koss, M. J., Glidden, A., Balokovic, M., Stern, D., **Lamperti, I.**, Assef, R., Bauer, F., Ballantyne, D., Boggs, S. E., Craig, W. W., Farrah, D., Furst, F., Gandhi, P., Gehrels, N., Hailey, C. J., Harrison, F. A., Markwardt, C., Masini, A., Ricci, C., Treister, E., Walton, D. J., and Zhang, W. W..
The Astrophysical Journal Letters, 824, L4 (2016b)
 2. *A New Population of Compton-thick AGNs Identified Using the Spectral Curvature above 10 keV.*
Koss, M. J., Assef, R., Balokovic, M., Stern, D., Gandhi, P., **Lamperti, I.**, Alexander, D. M., Ballantyne, D. R., Bauer, F. E., Berney, S., Brandt, W. N., Comastri, A., Gehrels, N., Harrison, F. A., Lansbury, G., Markwardt, C., Ricci, C., Rivers, E., Schawinski, K., Trakhtenbrot, B., Treister, E., and Urry, C. M. The Astrophysical Journal, 825(2), 85 (2016a)
 1. *BAT AGN spectroscopic survey-II. X-ray emission and high-ionization optical emission lines.*
Berney, S., Koss, M., Trakhtenbrot, B., Ricci, C., **Lamperti, I.**, Schawinski, K., Balokovic, M., Crenshaw, D. M., Fischer, T., Gehrels, N., Harrison, F., Hashimoto, Y., Ichikawa, K., Mushotzky, R., Oh, K., Stern, D., Treister, E., Ueda, Y., Veilleux, S., and Winter, L..
Monthly Notices of the Royal Astronomical Society, 454, 3622-3634 (2015)