

# Ugnė Dudzevičiūtė

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## ACADEMIC QUALIFICATIONS

<b>PhD in Astrophysics</b> <i>Durham University</i>	Durham, UK <i>October 2017 – October 2021</i>
<b>MPhys Physics and Astronomy</b> <i>Durham University</i>	Durham, UK <i>September 2013 – July 2017</i>

## RESEARCH INTERESTS

**Galaxy formation and evolution;**  
**Dynamics of galaxies:** decomposing high redshift galaxies into stellar, gaseous and dark matter components;  
**High-redshift galaxies:** multi-wavelength analysis of high redshift galaxies;  
**Starburst galaxies:** physical properties of dusty star-forming galaxies at high redshift.

## OBSERVING RUNS

<b>VLT / KMOS (0100.A-0134(A))</b> <i>KASHz: Tracing Host-galaxy Dynamics and Large-Scale Outflows of Distant AGN</i>	Dec. 2017 - 7 nights
<b>JCMT / SCUBA-2 (M18AP054)</b> <i>Unveiling Dust Emission Associated with Extended Quasar Nebulae</i>	Feb. 2018 - 4 nights
<b>JCMT / SCUBA-2 (M19AP048)</b> <i>A missing population of strongly star-forming galaxies at <math>z &gt; 3</math>?</i>	Mar. 2019 - 3 nights
<b>JCMT / SCUBA-2 (M16AL006)</b> <i>STUDIES: SCUBA-2 ULTRA Deep Imaging EAO Survey</i>	Mar. 2019 - 5 nights

## SUCCESSFUL RESEARCH PROPOSALS

PI:

<b>VLT / KMOS (0102.A-0901)</b> <i>Uncovering starburst activity and AGN feedback in a <math>z = 3.09</math> proto-cluster core</i>	2018 11h
<b>ALMA (2018.1.01721.S)</b> <i>The Dust SEDs of ALMA-identified galaxies</i>	2018 14.6h

Co-I:

<b>VLT / KMOS (1102.B-0232)</b> <i>KURVS: The outer-edges of individual star-forming galaxies at high-redshift (PI: A.M. Swinbank)</i>	2018 224h
<b>ALMA (2019.1.00381.S)</b> <i>[NII] and [CII] disentangle the neutral and ionised ISM in sub-mm galaxies at <math>z \sim 4.5</math> (PI: J. Wardlow)</i>	2019 11h
<b>ALMA (2019.1.00337.S)</b> <i>An efficient CO survey of sub-mm galaxies from AS2UDS (PI: I. Smail)</i>	2019 17.3h

## TALKS & CONFERENCES

<b>DEX XVI</b>   <i>Multi-wavelength analysis of sub-millimetre galaxies</i> • Winner of the best presentation prize	2020
<b>Friday Lunch Time talk</b>   <i>Physical properties of 707 ALMA-located sub-millimetre galaxies</i>	2019
<b>Friday Lunch Time talk</b>   <i>AS2UDS Survey: Multi-wavelength Analysis of Sub-millimeter Galaxies</i>	2019
<b>DEX XV</b>   <i>AS2UDS survey: Multi-wavelength properties of sub-millimeter galaxies</i>	2019
<b>Friday Lunch Time talk</b>   <i>Multi-wavelength properties of ALMA-detected galaxies</i>	2018

## TEACHING & OUTREACH EXPERIENCE

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### Undergraduate Advanced Laboratory Demonstrator

University of Durham

October 2017 – Present

Durham, UK

- Supervising 3rd year physics students in undertaking observational astronomy projects using University's telescopes.

### Outreach & Volunteering:

- Volunteer for the new PhD support system for the new 1st year PhD students helping with any of their academic or social concerns.
- Open Day demonstrator and helper with events at the department.
- Volunteer at Kielder observatory during undergraduate studies. The role included giving presentations for various audiences, guiding visitors through the night sky, operating amateur telescopes.

## PUBLICATIONS

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First/second author publications:

1. *An ALMA survey of the SCUBA-2 CLS UDS field: physical properties of 707 sub-millimetre galaxies* | [2020/03 MNRAS 494 3828](#) | 38 citations  
**Dudzevičiūtė, U.**; Smail, Ian; Swinbank, A. M.; Stach, S. M.; Almaini, O.; da Cunha, E.; An, Fang Xia; Arumugam, V.; Birkin, J.; Blain, A. W.; Chapman, S. C.; Chen, C. -C.; Conselice, C. J.; Coppin, K. E. K.; Dunlop, J. S.; Farrah, D.; Geach, J. E.; Gullberg, B.; Hartley, W. G.; Hodge, J. A.; Ivison, R. J.; Maltby, D. T.; Scott, D.; Simpson, C. J.; Simpson, J. M.; Thomson, A. P.; Walter, F.; Wardlow, J. L.; Weiss, A.; van der Werf, P.
2. *Tracing the evolution of dust-obscured activity using sub-millimetre galaxy populations from STUDIES and AS2UDS* | [arXiv:2010.06605](#) MNRAS accepted  
**Dudzevičiūtė, U.**; Ian Smail; A. M. Swinbank; C.-F. Lim; W.-H. Wang; J. M. Simpson; Y. Ao; S. C. Chapman; C.-C. Chen; D. Clements; H. Dannerbauer; L. C. Ho; H. S. Hwang; M. Koprowski; C.-H. Lee; D. Scott; H. Shim; R. Shirley; and Y. Toba
3. *An ALMA survey of the S2CLS UDS field: Optically invisible submillimetre galaxies* | [arXiv:2010.02250](#) | 1 citation  
Smail, Ian; **Dudzevičiūtė, U.**; Stach, S. M.; Almaini, O.; Birkin, J. E.; Chapman, S. C.; Chen, Chian-Chou; Geach, J. E.; Gullberg, B.; Hodge, J. A.; Ikarashi, S.; Ivison, R. J.; Scott, D.; Simpson, Chris; Swinbank, A. M.; Thomson, A. P.; Walter, F.; Wardlow, J. L.; van der Werf, P.
4. *An ALMA survey of the SCUBA-2 Cosmology Legacy Survey UKIDSS/UDS field: source catalogue and properties* | [2019/08 MNRAS 487 4648](#) | 38 citations  
Stach, Stuart M.; **Dudzevičiūtė, U.**; Smail, Ian; Swinbank, A. M.; Geach, J. E.; Simpson, J. M.; An, Fang Xia; Almaini, Omar; Arumugam, Vinodiran; Blain, A. W.; Chapman, S. C.; Chen, Chian-Chou; Conselice, C. J.; Cooke, E. A.; Coppin, K. E. K.; da Cunha, E.; Dunlop, J. S.; Farrah, Duncan; Gullberg, B.; Hodge, J. A.; Ivison, R. J.; Kocevski, Dale D.; Michałowski, M. J.; Miyaji, Takamitsu; Scott, Douglas; Thomson, A. P.; Wardlow, J. L.; Weiss, Axel; van der Werf, P.

Co-author publications (extra information included for those papers where my contribution was beyond sending feedback and comments):

1. *An ALMA survey of the SCUBA-2 Cosmology Legacy Survey UKIDSS/UDS field: Halo Masses for Submillimetre Galaxies* | MNRAS submitted  
Stach, Stuart M., Smail, Ian, Amvrosiadis, A., Swinbank, A. M.; **Dudzevičiūtė, U.**; Geach, J. E.; Almaini, Omar; Birkin, J. E.; Chen, Chian-Chou; Cooke, E. A.; Coppin, K. E. K.; Dunlop, J. S.; Farrah, Duncan; Ikarashi, S.; Ivison, R. J.; Wardlow, J. L.
2. *The Evolution of Gas-Phase Metallicity and Resolved Abundances in Star-forming Galaxies at  $z \approx 0.6 - 1.8$*  | [arXiv:2010.15847](#) MNRAS accepted  
Gillman, S.; Tilely, A. L.; Swinbank, A. M.; **Dudzevičiūtė, U.**; Sharples, R. M.; Smail, Ian; Harrison, C. M.; Bunker, Andrew J.; Bureau, Martin; Cirasuolo, M.; Magdis, Georgios E.; Mendel, Trevor; Stott, John P.
3. *Resolving a dusty, star-forming SHiZELS galaxy at  $z=2.2$  with HST, ALMA and SINFONI on kiloparsec scales* | MNRAS submitted  
Cochrane, R.K.; Best, P.N.; Smail, I.; Ibar, E.; Cheng, C.; Swinbank, A.M.; Molina, J.; Sobral, D.; **Dudzevičiūtė, U.**; (provided the multi-wavelength analysis of a comparison sample from Tadaki et al. 2020)

4. *The ALMA Spectroscopic Survey Large Program: The Infrared Excess of  $z=1.5-10$  UV-selected Galaxies and the Implied High-Redshift Star Formation History* | [2020/10 ApJ 902 112](#) | 4 citations  
Bouwens, Rychard; Gonzalez-Lopez, Jorge; Aravena, Manuel; Decarli, Roberto; Novak, Mladen; Stefanon, Mauro; Walter, Fabian; Boogaard, Leindert; Carilli, Chris; **Dudzevičiūtė, Ugnė**; Smail, Ian; Daddi, Emanuele; da Cunha, Elisabete; Ivison, Rob; Nanayakkara, Themiya; Cortes, Paulo; Cox, Pierre; Inami, Hanae; Oesch, Pascal; Popping, Gergo; Riechers, Dominik; van der Werf, Paul; Weiss, Axel; Fudamoto, Yoshi; Wagg, Jeff  
(Fig.18–20 are largely based on the analysis I provided)
5. *An ALMA Survey of the SCUBA-2 Cosmology Legacy Survey UKIDSS/UDS Field: The Far-infrared/Radio correlation for High-redshift Dusty Star-forming Galaxies* | [arXiv:2009.06647](#) | 1 citation  
Algera, H. S. B.; Smail, I.; **Dudzevičiūtė, U.**; Swinbank, A. M.; Stach, S.; Hodge, J. A.; Thomson, A. P.; Almaini, O.; Arumugam, V.; Blain, A. W.; Calistro-Rivera, G.; Chapman, S. C.; Chen, C. -C.; da Cunha, E.; Farrah, D.; Leslie, S.; Scott, D.; Van der Vlugt, D.; Wardlow, J. L.; Van der Werf, P.  
(provided the multi-wavelength analysis of the AS2UDS sample)
6. *An ALMA/NOEMA survey of the molecular gas properties of high-redshift star-forming galaxies* | [arXiv:2009.03341](#) | 1 citation  
Birkin, Jack E.; Weiss, Axel; Wardlow, J. L.; Smail, Ian; Swinbank, A. M.; **Dudzevičiūtė, U.**; An, Fang Xia; Ao, Y.; Chapman, S. C.; Chen, Chian-Chou; da Cunha, E.; Dannerbauer, H.; Gullberg, B.; Hodge, J. A.; Ikarashi, S.; Ivison, R. J.; Matsuda, Y.; Stach, S. M.; Walter, F.; Wang, W. -H van der Werf, P.
7. *An ALMA survey of the brightest sub-millimetre sources in the SCUBA-2-COSMOS field* | [2020/05 MNRAS 495 3409](#) | 10 citations  
Simpson, J. M.; Smail, Ian; **Dudzevičiūtė, U.**; Matsuda, Y.; Hsieh, B. -C.; Wang, W. -H.; Swinbank, A. M.; Stach, S. M.; An, Fang Xia; Birkin, J. E.; Ao, Y.; Bunker, A. J.; Chapman, S. C.; Chen, Chian-Chou; Coppin, K. E. K.; Ikarashi, S.; Ivison, R. J.; Mitsuhashi, I.; Saito, T.; Umehata, H. Wang, R.; Zhao, Y.  
(provided the multi-wavelength analysis of the AS2COSMOS sample)
8. *An ALMA survey of the SCUBA-2 cosmology legacy survey UKIDSS/UDS field: Dust attenuation in high-redshift Lyman-break galaxies* | [2020/03 MNRAS 492 4927](#) | 3 citations  
Koprowski, M. P.; Coppin, K. E. K.; Geach, J. E.; **Dudzevičiūtė, U.**; Smail, Ian; Almaini, O.; An, Fangxia; Blain, A. W.; Chapman, S. C.; Chen, Chian-Chou; Conselice, C. J.; Dunlop, J. S.; Farrah, D.; Gullberg, B.; Hartley, W.; Ivison, R. J.; Karska, A.; Maltby, D.; Malek, K.; Michałowski, M. J.; Pope, A.; Salim, S.; Scott, D.; Simpson, C. J.; Simpson, J. M.; Swinbank, A. M.; Thomson, A. P.; Wardlow, J. L.; van der Werf, P. P.; Whitaker, K. E.  
(provided the multi-wavelength analysis for the AS2UDS sources)
9. *From peculiar morphologies to Hubble-type spirals: the relation between galaxy dynamics and morphology in star-forming galaxies at  $z \sim 1.5$*  | [2020/02 MNRAS 492 1492](#) | 1 citation  
Gillman, S.; Tiley, A. L.; Swinbank, A. M.; Harrison, C. M.; Smail, Ian; **Dudzevičiūtė, U.**; Sharples, R. M.; Cortese, L.; Obreschkow, D.; Bower, R. G.; Theuns, T.; Cirasuolo, M.; Fisher, D. B.; Glazebrook, K.; Ibar, Edo; Mendel, J. Trevor; Sweet, Sarah M.  
(provided the multi-wavelength analysis for the KGES sources)
10. *SCUBA-2 Ultra Deep Imaging EAO Survey (Studies). III. Multiwavelength Properties, Luminosity Functions, and Preliminary Source Catalog of 450  $\mu\text{m}$  Selected Galaxies* | [2020/02 ApJ 889 80](#) | 8 citations  
Lim, Chen-Fatt; Wang, Wei-Hao; Smail, Ian; Scott, Douglas; Chen, Chian-Chou; Chang, Yu-Yen; Simpson, James M.; Toba, Yoshiki; Shu, Xinwen; Clements, Dave; Greenslade, Josh; Ao, YiPing; Babul, Arif; Birkin, Jack; Chapman, Scott C.; Cheng, Tai-An; Cho, Brian S.; Dannerbauer, Helmut; **Dudzevičiūtė, Ugnė**; Dunlop, James; Gao, Yu; Goto, Tomotsugu; Ho, Luis C.; Hsu, Li-Ting; Hwang, Ho Seong; Jeong, Woong-Seob; Koprowski, Maciej; Lee, Chien-Hsiu; Lin, Ming-Yi; Lin, Wei-Ching; Michałowski, Michał J.; Parsons, Harriet; Sawicki, Marcin; Shirley, Raphael; Shim, Hyunjin; Urquhart, Sheona; Wang, Jianfa; Wang, Tao
11. *An ALMA survey of the SCUBA-2 Cosmology Legacy Survey UKIDSS/UDS field: high-resolution dust continuum morphologies and the link between sub-millimetre galaxies and spheroid formation* | [2019/12 MNRAS 490 4956](#) | 15 citations  
Gullberg, B.; Smail, Ian; Swinbank, A. M.; **Dudzevičiūtė, U.**; Stach, S. M.; Thomson, A. P.; Almaini, O.; Chen, C. C.; Conselice, C.; Cooke, E. A.; Farrah, D.; Ivison, R. J.; Maltby, D.; Michałowski, M. J.; Simpson, J. M.; Scott, D.; Wardlow, J. L.; Weiss, A.  
(provided the multi-wavelength analysis for the AS2UDS sources)
12. *Hyperluminous starburst gives up its secrets* | [2019/10 MNRAS 489 427](#) | 4 citations  
Ivison, R. J.; Page, M. J.; Cirasuolo, M.; Harrison, C. M.; Mainieri, V.; Arumugam, V.; **Dudzevičiūtė, U.**  
(provided Fig. 5)

13. *Radio Spectra and Sizes of Atacama Large Millimeter/submillimeter Array-identified Submillimeter Galaxies: Evidence of Age-related Spectral Curvature and Cosmic-Ray Diffusion?* | [2019/10 ApJ 883 204](#) | 8 citations  
Thomson, A. P.; Smail, Ian; Swinbank, A. M.; Simpson, J. M.; Arumugam, V.; Stach, S.; Murphy, E. J.; Rujopakarn, W.; Almaini, O.; An, F.; Blain, A. W.; Chen, C. C.; Cooke, E. A.; **Dudzevičiūtė, U.**; Edge, A. C.; Farrah, D.; Gullberg, B.; Hartley, W.; Ibar, E.; Maltby, D.; Michałowski, M. J.; Simpson, C.; van der Werf, P.; Wardlow, J. L.
14. *Revealing the Stellar Mass and Dust Distributions of Submillimeter Galaxies at Redshift 2* | [2019/07 ApJ 879 54](#) | 19 citations  
Lang, Philipp; Schinnerer, E.; Smail, Ian; **Dudzevičiūtė, U.**; Swinbank, A. M.; Liu, Daizhong; Leslie, S. K.; Almaini, O.; An, Fang Xia; Bertoldi, F.; Blain, A. W.; Chapman, S. C.; Chen, Chian-Chou; Conelice, C.; Cooke, E. A.; Coppin, K. E. K.; Dunlop, J. S.; Farrah, D.; Fudamoto, Y.; Geach, J. E.; Gullberg, B.; Harrington, K. C.; Hodge, J. A.; Ivison, R. J.; Jiménez-Andrade, E. F.; Magnelli, B.; Michałowski, M. J.; Oesch, P.; Scott, D.; Simpson, J. M.; Smolčić, V.; Stach, S. M.; Thomson, A. P.; Toft, S.; Vardoulaki, E.; Wardlow, J. L.; Weiss, A.; van der Werf, P.  
(provided the multi-wavelength analysis for the UDS sources)
15. *The dynamics and distribution of angular momentum in HiZELS star-forming galaxies at  $z = 0.8-3.3$*  | [2019/06 MNRAS 486 175](#) | 6 citations  
Gillman, S.; Swinbank, A. M.; Tiley, A. L.; Harrison, C. M.; Smail, Ian; **Dudzevičiūtė, U.**; Sharples, R. M.; Best, P. N.; Bower, R. G.; Cochrane, R.; Fisher, D.; Geach, J. E.; Glazebrook, K.; Ibar, Edo; Molina, J.; Obreschkow, D.; Schaller, M.; Sobral, D.; Sweet, S.; Trayford, J. W.; Theuns, T.  
(provided the multi-wavelength analysis for the HiZELS sources)