

Dr. Jan Scholtz

CONTACT INFORMATION	Gothenburg 416 63 Sweden	E-mail: honzascholtz@gmail.com
EMPLOYMENT	Chalmers University of Technology , Sweden <i>Post-doctoral Research</i> : Supervisor: Prof. Kirsten Knudsen. Studying molecular gas kinematics of Hot Dust Obscured Galaxies at high redshift. Modelling different galaxy kinematics to detect outflows. Co-supervising masters student project.	11/2019 – 11/2021
EDUCATION	Durham University , England, UK <i>PhD in Astronomy</i> : Supervisor: Prof. D.M. Alexander. Observational constraints on the impact of AGN feedback on their host galaxies using ALMA, IFU and cosmological simulations.	09/2015 – 09/2019
	ESO , Garching, Germany <i>ESO Studentship</i> : Supervisor: Dr Chris Harrison, Dr Vincenzo Manieri. Studying the connection between AGN outflows and multiple star formation tracers, as well as comparing the KMOS (seeing limited) and SINFONI (AO assisted) observations using the KASHz and SUPER surveys.	07/2017 – 06/2018
	University of Cardiff , Wales, UK <i>MPhys in Physics and Astronomy (Second Class First Division)</i> : Astrophysics Project; Supervisor Prof. S. Eales. Galaxy evolution with <i>Herschel</i> and <i>HST</i>	09/2011 – 06/2015
POSITIONS OF RESPONSIBILITY	Supervising Masters student Supervising a master by research student. Teaching the student about galaxy evolution, data analyses of sub-mm spectra and statistics.	2020 -
	LOC for Are AGN Special? Conference Helping with organizing an international conference in Durham about AGN feedback, their feeding and environment. I helped with the planning of the conference (e.g. schedule, merchandise design, Hadrian Wall hike) as well as the day-to-day organization during the conference.	2018
	Asisstant at ESO Observing Programmes Committee I was a scientific assistant at ESO Observing Programmes Committee (OPC). OPC is the panel evaluating telescope proposals for the ESO telescopes. My responsibility during the two day long meeting was to count and record votes as well as serving as a contact between the scientists on the panel and ESO technical staff.	05/2018
	Astronomy Laboratory Classes Helping third-year students with their astronomy projects, including obtaining observations, reducing data and understanding the data analysis.	10/2016 – 05/2017
	Workshop for Stars & Galaxies Tutor for the second year physics student Stars & Galaxies. I helped them with their weekly problem sheets and marking their mid-term tests.	10/2015 – 06/2016 & 10/2018 – 06/2019
LIST OF PUBLICATIONS	Scholtz, J. ; Harrison, C. M.; Rosario, D. J.; Alexander, K.K. Knudsen, F. Stanley,	

Chian-Chou Chen, D. Kakkad, V. Mainieri, J. Mullaney
Submitted

The impact of ionised outflows by $z \sim 2.5$ quasars is not rapid in-situ quenching based on evidence from ALMA and VLT/SINFONI

Scholtz, J.; Harrison, C. M.; Rosario, D. J.; Alexander, D. M.; Chen, C. -C.; Kakkad, D.; Mainieri, V.; Tiley, A. L.; Turner, O.; Cirasuolo, M.; Sharples, R. M.; Stach, S.,
2020MNRAS.492.3194S

KASHz: No evidence for ionised outflows instantaneously suppressing star formation in moderate luminosity AGN at $z \sim 1.4-2.6$

Scholtz, J., Alexander, D. M., Harrison, C. M., Rosario, D. J., McAlpine, S.
MNRAS 475 1288S

Identifying the subtle signatures of feedback from distant AGN using ALMA observations and the EAGLE hydrodynamical simulations

Vietri, G.; Mainieri, V.; Kakkad, D.; Netzer, H.; Perna, M.; Circosta, C.; Harrison, C. M.; Zappacosta, L.; Husemann, B.; Padovani, P.; Bischetti, M.; Bongiorno, A.; Brusa, M.; Carniani, S.; Cicone, C.; Comastri, A.; Cresci, G.; Feruglio, C.; Fiore, F.; Lanzuisi, G. Mannucci, F.; Marconi, A.; Piconcelli, E.; Puglisi, A.; Salvato, M.; Schramm, M.; Schulze, A.; **Scholtz, J.**; Vignali, C.; Zamorani, G.
arXiv:2010.07443

SUPER III. Broad Line Region properties of AGN at $z \sim 2$

Kakkad, D.; Mainieri, V.; Vietri, G.; Carniani, S.; Harrison, C. M.; Perna, M.; **Scholtz, J.**; Circosta, C.; Cresci, G.; Husemann, B.; Bischetti, M.; Feruglio, C.; Fiore, F.; Marconi, A.; Padovani, P.; Brusa, M.; Cicone, C.; Comastri, A.; Lanzuisi, G.; Mannucci, F. Menci, N.; Netzer, H.; Piconcelli, E.; Puglisi, A.; Salvato, M.; Schramm, M.; Silverman, J.; Vignali, C.; Zamorani, G.; Zappacosta, L.
arXiv:2008.01728

SUPER. II. Spatially resolved ionised gas kinematics and scaling relations in $z \sim 2$ AGN host galaxies

Jackson, Thomas M.; Rosario, D. J.; Alexander, D. M.; **Scholtz, J.**; McAlpine, Stuart; Bower, R. G.
2020MNRAS.498.2323J

The star formation properties of the observed and simulated AGN Universe: BAT versus EAGLE

Harrison, C. M.; Alexander, D. M.; Rosario, D. J.; **Scholtz, J.**; Stanley, F. eprint
arXiv:1912.01020

Do AGN really suppress star formation?

An, Fang Xia; Simpson, J. M.; Smail, Ian; Swinbank, A. M.; Ma, Cong; Liu, Daizhong; Lang, P.; Schinnerer, E.; Karim, A.; Magnelli, B.; Leslie, S.; Bertoldi, F.; Chen, Chian-Chou; Geach, J. E.; Matsuda, Y.; Stach, S. M.; Wardlow, J. L.; Gullberg, B.; Ivison, R. J.; Ao, Y. Coogan, R. T.; Thomson, A. P.; Chapman, S. C.; Wang, R.; Wang, Wei-Hao; Yang, Y.; Asquith, R.; Bourne, N.; Coppin, K.; Hine, N. K.; Ho, L. C.; Hwang, H. S.; Kato, Y.; Lacaille, K.; Lewis, A. J. R.; Oteo, I.; **Scholtz, J.**; Sawicki, M.; Smith, D.
2019ApJ88648A

Multi-wavelength Properties of Radio- and Machine-learning-identified Counterparts to Submillimeter Sources in S2COSMOS

Zanella, A.; Le Floch, E.; Harrison, C. M.; Daddi, E.; Bernhard, E.; Gobat, R.; Strazzullo, V.; Valentino, F.; Cibinel, A.; Snchez Almeida, J.; Kohandel, M.; Fensch, J.; Behrendt, M.; Burkert, A.; Onodera, M.; Bournaud, F.; **Scholtz, J.**,
2019MNRAS.489.2792Z

A contribution of star-forming clumps and accreting satellites to the mass assembly of $z \sim 2$ galaxies

Harrison, C.M; Molyneux, S.J.; **Scholtz, J**; Jarvis, M.E.,
eprint arXiv:2006.01196

Establishing the impact of powerful AGN on their host galaxies

Husemann, B., Bielby, R., Jahnke, K., Arrigoni-Battaia, F., Worseck, G., Shanks, T., Wardlow, J., **Scholtz, J.**

A&A 614, L2

Cosmic dance at $z = 3$: Detecting the host galaxies of the dual AGN system LBQS 0302-0019 and J11 with HAWK-I+GRAAL

Stanley, F., Harrison, C. M., Alexander, D. M., Simpson, J., Knudsen, K. K., Mullaney, J R., Rosario, D. J. **Scholtz, J.**

MNRAS 478 3721S

Deep ALMA photometry of distant X-ray AGN: improvements in star formation rate constraints, and AGN identification

TALKS AND
POSTERS

Talk at Supermassive Black Holes: environment and evolution 2019 (Corfu)

Talk at DEX XV 2019 (Edinburgh)

Talk at 5 years of KMOS 2018 (ESO, Garching)

Talk at EWASS AGN session 2018 (Liverpool)

Talk at Are AGN special? 2018 (Durham)

Talk at DEX 2017 (Edinburgh)

Talk at Myths of AGN feedback 2017 (Lorentz Center in Leiden)

Poster at ESO Galaxy Ecosystem 2017 (ESO, Garching)

OBSERVING
EXPERIENCE

2 KMOS/VLT runs, 11 nights in total as part of the Durham GTO time

JCMT - 6 nights at JCMT in Hawaii as part of the Durham Large Programme on SCUBA-2 instrument

ACCEPTED
TELESCOPE
PROPOSALS

As PI

ALMA, 2018.1.01044.S. The systematic search for a causal connection between AGN-driven outflows and star formation, A-ranked proposal in Cycle 6. I was awarded 20 hours to observe band 6 and 7 continuum of 60 high redshift AGN host galaxies.

As Co-I

ALMA, 2018.1.01476.S, PI: David Alexander, A systematic experiment to measure fundamental differences in the star-formation properties of red and blue quasars

ALMA, 2018.1.00992.S, PI: Christopher Harrison, A SUPER spatially-resolved assessment of the impact of AGN-driven outflows

ALMA, 2017.1.00335.S, PI: Flora Stanley, Radio-luminous AGN through ALMA's eyes: What is the effect of luminous radio activity on star formation?

ALMA, 2017.1.00112.S, PI: Christopher Harrison, Do $z \sim 2$ quasar-driven outflows really suppress star formation?

ALMA, 2016.1.00804.S, PI: Flora Stanley, Radio-luminous AGN through ALMA's eyes: What is the effect of luminous radio activity on star formation?

ALMA, 2016.1.00735.S, PI: Christopher Harrison, Spatially-resolved star formation at high-z; are AGN host galaxies special?

ALMA, 2016.1.00626.S, PI: David Alexander, A systematic study of the connection between AGN-driven outflows and star formation

TRAINING

CASA workshop (2018) - Workshop in Durham by the ALMA node staff to learn about ALMA data reduction and imaging with CASA pipeline and any updates in the last 3 years.

ESO Science Communication training (2018) - Training arranged by ESO to learn how to effectively communicate science in both professional and outreach environments.

CASA workshop (2015) - Workshop at ALMA node in Manchester to learn about ALMA data reduction and imaging with CASA pipeline.

VOLUNTEERING & OUTREACH

Talk at Astronomy on Tap Gothenburg **05/2020**
Online talk about Supermassive blackholes and their impact on galaxies - My talk can be viewed [here](#)

Astronomy on Tap Gothenburg **11/2019–**
Responsible for Online events during the COVID-19 pandemic as well as Youtube streaming and chat management.

Space Day **01/2016**
Helping with an event about astronomy and space for 60 high school kids.

School Science Festival **2015, 2018**
Helping with an event about astronomy and space for high school kids.

Durham Science Festival **2015, 2016, 2018**
Helping at the astronomy stand presenting the evolution of galaxies and the universe and more recently acting as a ESO science ambassador educating public about the E-ELT.

ESO Science Ambassador Manchester Festival of Science **2018**
Educating public about the E-ELT and astronomy in general at the ESO stand during Manchester science festival.

Elected student representative for 4th year Astrophysics class **10/2014 – 06/2015**
Representing my class and forwarding their ideas and concerns to the School of Physics and Astronomy at Cardiff University.

Astronomy Summer Camp Lecturer, Camp Ricky, CZ **August 2013**
One of two activity co-ordinators at Astronomy camp. I taught children basic astronomy and the history of space exploration, coordinating night stargazing and taking care of equipment (telescopes, filters, eyepieces).

Summer Camp Instructor, Camp Ledec, CZ **July 2010, 2011, 2012, 2016**
I took care of a group of 8 boys (ages 8-10) for two weeks, cooperating with the rest of the instructors to design games for 120 children.

WORK
EXPERIENCE

Student Warden at University Residence , Cardiff, GB **09 2014 - 06 2015**
Helping University security and management team to accommodate students and acting as liason between managers and the students as well as regular night shifts throughout the year to perform minor duties.

Assistant for the Sales Manager at CLS, Prague, CZ **07 - 08 2014**
This company trades with Avionics and aircraft-related products. My job included communication with customers, preparing quotes based on demand from customers, preparing invoices, organizing shipping to customers and preparing the necessary paperwork for government tenders.

LANGUAGES

Native Czech, Fluent English, Proficient French

COMPUTING
SKILLS

Python, CASA, DS9, Esorex, SExtractor, Galfit, LaTeX

OTHER
QUALIFICATION

Red Cross First Aid Course **06 2010**
Red Cross First Aid Course for Child Carers **06 2011**
Open Water Diver **06 2011**

LEISURE
ACTIVITIES

Cycling, Rowing (2009-2019), Floorball Prague League (2001-2008), Diving (2010-present), Ultimate Frisbee, Astrophotography, RC Models, Reading, Cycling, Web Developing