

Liam Philip Grimmer

Curriculum Vitae

PERSONAL DETAILS

Birth August 26, 1994
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EDUCATION

Phd Statistical Astronomy

2016-present

University of Sheffield

Thesis title: Investigating the statistical relationship between supermassive black holes and their host galaxy properties.

MMath Mathematics

2012-2016

University of Sheffield

Research project: Bayesian skew models for panel data.

A-level and GCSE

2008-2012

Outwood Grange Academy

GCSE: 10 A*-C including Maths (A*) and English (A). A-level: Maths(A, 93% avg.), Biology (B), Chemistry (C).

PUBLICATIONS

The post-*Herschel* view of intrinsic AGN emission: constructing templates for galaxy and AGN emission at IR wavelengths.

Submitted

Bernhard, E.; Tadhunter, C.; Mullaney, J. R.; Grimmer, L. P. et al.

A binning-free method reveals a continuous relationship between galaxies' AGN power and offset from main sequence

2020

Grimmer, L. P.; Mullaney, J. R.; Bernhard, E.; Stanley, F.; Alexander, D.; Harrison, C. M.; Walters, K.

The evolving AGN duty cycle in galaxies since $z \sim 3$ as encoded in the X-ray luminosity function.

2020

Delvecchio, I.; Daddi, E.; ...; Grimmer, L. P.; ...; ApJ

Exoplanet detection and its dependence on stochastic sampling of the stellar Initial Mass Function

2020

Bottrill, A.; Haigh, M. E.; Hole, M. R. A.; Theakston, S. C. M.; Allen, R. B.; Grimmer, L. P.; Parker, R. J., ApJ

The Galaxy's gas content regulated by the Dark Matter Halo mass results in a superlinear $M_{BH} - M_*$ relation

2019

*Delvecchio, I.; Daddi, E.; ...; **Grimmett, L. P.**, ApJ Letters, Volume 885, Issue 2, L36.*

Dynamical evolution of star-forming regions: III. Unbound stars and predictions for Gaia 2019

*Schoettler, Christina; Parker, Richard J.; Arnold, Becky; **Grimmett, Liam P.**; de Bruijne, Jos; Wright, Nicholas J., MNRAS, Volume 487, pages 4615-4630.*

Revealing the differences in the SMBH accretion rate distributions of starburst and non-starburst galaxies 2019

***Grimmett, L.P.**; Mullaney, J. R.; Jin, S.; Bernhard, E.; Daddi, E.; Walters, K., MNRAS, Volume 487, pages 4071-4082.*

Inferring a difference in the star-forming properties of lower versus higher X-ray luminosity AGNs 2019

*Bernhard, E.; **Grimmett, L.P.**; Mullaney, J. R.; Daddi, E.; Tadhunter C.; Jin, S., MNRAS: Letters, Volume 483, pages L52-L57.*

Evidence for a mass-dependent AGN Eddington ratio distribution via the flat relationship between SFR and AGN luminosity 2018

*Bernhard, E.; Mullaney, J. R.; Aird, J.; Hickox, R. C.; Jones, M. L.; Stanley, F.; **Grimmett, L. P.**; Daddi, E., MNRAS, Volume 476, pages 436-450.*

PRESENTATIONS AND CONFERENCES

Invited Seminar - University of Leicester

Feb 2020

Talk: "Revealing a continuous relationship between star formation rate distributions and AGN power."

From AGN to Starburst: A Multi-wavelength Synergy.

Aug 2019

Talk: "Revealing the differences in the SMBH accretion rate distributions of starburst and non-starburst galaxies.", Guiyang, China.

Supermassive Black Holes: Environment and Evolution

Jun 2019

Talk: "Revealing the differences in the SMBH accretion rate distributions of starburst and non-starburst galaxies.", Corfu, Greece.

European Week of Astronomy and Space Science

Apr 2018

Poster: "Revealing the differences in the SMBH accretion rate distributions of starburst and non-starburst galaxies.", Liverpool, UK.

The link between AGN and galaxy formation

Dec 2017

Attended, RAS, London, UK.

New results in X-ray Astronomy

Sep 2017

Attended, Durham, UK.

Astrostatistics Summer School

Jun 2017

Attended, Penn State University, USA.

EMPLOYMENT HISTORY

Teaching Assistant

2015 - present

University of Sheffield

Teaching tutorials, problems classes and seminars for the BSc Mathematics and BSc Physics and Astronomy courses. Also assisted problems classes for the MSc Statistics.

Behaviour in Team (BiT) Observer

2017-2018

University of Sheffield

Observer for the BiT project led by the Management School at The University of Sheffield. This short term research project involved researching which behaviours lead to more successful team working. Researching the science of team-work was very interesting and very useful.

Duty Manager

2011-2016

Iceland Foods

Held down a managerial role in food retail throughout my undergraduate studies. Skills include cash admin, customer services and team leadership. No sickness history. Promoted after 18 months.

SKILLS

Languages

English (fluent), German (basic)

Software

Intermediate – PYTHON2, PYTHON3, L^AT_EX, MICROSOFT OFFICE

Good – R, LINUX, GIT

Beginner– HTML, SQL, MACHINE LEARNING

REFERENCES

Available upon request