

Jeffrey Chi Chung Chan

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RESEARCH INTEREST

Galaxy Evolution, Massive Galaxies, Galaxy Clusters and Protoclusters

EMPLOYMENT

2017 - 2020 **University of California, Riverside (UCR) – Postdoctoral Researcher**
Research Focus: The properties of galaxies in high-redshift galaxy clusters
Active member of GOGREEN, SpARCS, KMOS-Cluster, and MAGAZ3NE surveys
Advisor: Prof. Gillian Wilson

EDUCATION

2012 - 2016 **Max Planck Institute for Extraterrestrial Physics (MPE) / Ludwig-Maximilian University of Munich (LMU) – Dr. rer. nat. in Astronomy (Magna Cum Laude)**
Dissertation: “Constraining the formation and evolution of cluster galaxies at $z \sim 1.5$ using sizes and colour gradients”
Advisor: PD. Dr. Roberto Saglia

2010 - 2012 **The University of Hong Kong (HKU) – M.Phil. in Astrophysics**
Dissertation: “Kinematics Constraints on Structuring of the Optical Emission-Line Nebula in NGC 1275”
Advisor: Dr. Jeremy Lim

2007 - 2010 **The University of Hong Kong (HKU) – B.Sc. (First Class Honours)**
(Major in Mathematics/Physics, Minor in Astronomy)
Final year bachelor research project: “Coronal Magnetic Activity at the divide between partially and full convective stars”
Advisor: Dr. Jeremy Lim

AWARDS, SCHOLARSHIPS AND STUDENTSHIPS

2015 – 2016 Ph.D. Studentship (Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR grant))
2012 – 2015 Ph.D. Studentship (MPE)
2010 - 2012 Postgraduate Studentship (HKU)
2010 Best Presenter in Undergraduate Research Colloquium
2009 Li Po Kwai Scholarship
2008 Dean’s Honours List
2007 HKU Foundation Entrance Scholarship

OBSERVING EXPERIENCE

Co-I of > 20 accepted observing proposals. Telescopes: HST, ALMA, VLT (KMOS, X-Shooter), Keck (MOSFIRE, NIRES)

Hands-on observing

MOSFIRE, WM Keck Observatory – Multi-object spectroscopy of high-z cluster galaxies / proto-clusters / ultra-massive galaxies at $z>3$

2020 Feb Run 2020A – 3 nights
2019 Feb/Nov Run 2019A & 2019B – 4 nights
2018 Nov/Dec Run 2018B – 3 nights
2017 Mar/Nov Run 2017A & 2017B – 3 nights

GMOS, Gemini Observatory North – Slit spectroscopy of high-z cluster galaxies

2017 Apr Run 2017A – 5 nights

VLT/KMOS, Paranal Observatory – IFU observation of ETGs in high-z clusters

2015 Sep Run 095.A-0137(A) – 3 nights
2014 Oct Run 094.A-0578(A) – 4 nights
2014 Jul Run 093.A-0051(B) – 7 nights

Data reduction

Imaging: HST/ACS, HST/WFC3, VLT/HAWK-I and Spitzer/IRAC

Spectroscopy: VLT/KMOS, PMAS/PPAK at 3.5m of CAHA, Keck/MOSFIRE

Radio Interferometry: ATCA and VLA

CONFERENCE PRESENTATIONS AND SEMINARS

2020 Jul **European Astronomy Society Annual Meeting (EAS)**, online (contributed talk)
2018 Nov **Astronomy seminar**, UCR, Riverside (seminar)
2017 Jul **“Early stages of Galaxy Cluster Formation (GCF2017)”** conference, ESO Garching, Germany (contributed talk)
2016 Aug **“Deconstructing Galaxies at Cosmic Noon: The Present and Future of Deep Spectroscopic Surveys at High Redshift”** conference, Leiden Observatory, Leiden, The Netherlands (contributed talk)
2015 Sep **“In the footsteps of galaxies: tracing the evolution of environmental effects”** conference, Soverato, Italy (contributed talk)
2015 Jul **IMPRS student seminar**, MPE, Garching, Germany (seminar)
2015 Jul **“A 3D View on Galaxy Evolution: from Statistics to Physics”** conference, Max Planck Institute for Astronomy (MPIA), Heidelberg, Germany (poster presentation)
2015 Jun **European Week of Astronomy and Space Science (EWASS 2015)** conference, La Laguna, Tenerife, Spain (contributed talk)
2015 Apr **OPINAS group retreat**, Ringberg, Tegernsee, Germany (talk)
2015 Mar **OPINAS seminar**, MPE, Garching, Germany (seminar)
2014 Jun **“Future direction in Galaxy Cluster Surveys”** conference, École normale supérieure (ENS), Paris, France (contributed talk)
2014 Feb **OPINAS group retreat**, Ringberg, Tegernsee, Germany (talk)

- 2013 Apr **OPINAS seminar**, MPE, Garching, Germany (seminar)
2012 Aug **IAU XXVIII General Assembly**, Beijing, China (contributed talk)

WORKSHOPS AND SUMMER SCHOOLS

- 2020 Aug **GOGREEN/GCLASS Data Release and Workshop**, online
2019 Aug **GOGREEN 2019 Workshop**, York University, Canada
2018 Aug **GOGREEN 2018 Workshop**, University of Waterloo, Ontario, Canada
2017 Feb **GOGREEN 2017 Workshop**, The University of Kansas, Lawrence, USA
2015 Dec **KMOS Cluster Workshop 4**, MPE, Garching, Germany
2015 Jun **KMOS Cluster Workshop 3**, University of Oxford, Oxford, UK
2014 Nov **KMOS Cluster Workshop 2**, MPE, Garching, Germany
2013 Feb **KMOS Cluster Workshop 1**, University of Oxford, Oxford, UK
2011 Nov **The Hong Kong Workshop on Evolved Stars and Astrophysical Maser**, The University of Hong Kong, Hong Kong
2011 Jun **Star Formation Summer School**, The Academia Sinica Institute of Astronomy and Astrophysics (ASIAA), Taiwan
2011 Jun **Star Formation through Spectroimaging at High Angular Resolution**, The Academia Sinica Institute of Astronomy and Astrophysics (ASIAA), Taiwan

TEACHING, OUTREACH EXPERIENCE AND COMMUNITY WORK

- 2018 - 2020 Referee/reviewer for ApJ and AJ
2017 Volunteer for the 2017 total solar eclipse event (UCR)
2014 Demonstrator at Open day event (MPE)
2010 - 2012 Tutor of PHYS2022 "Observational Astronomy" and PHYS1414 "General Physics I" (HKU)
2008 Organizer of the Physics Summer Workshop 2008 for High School students
2007 - 2008 Internal Vice Chairperson of Physics Society (HKU)
2007 - 2009 Tutor for junior high school students (Mathematics class, Kumon H.K. Co. Ltd.)

SKILLS

- Language: Fluent in English, Cantonese, Fair in Mandarin
Computer:
- Programming and software development - IDL, Python, JS, VB
 - Data analysis software - IRAF, Miriad, AIPS, ds9, QFitsView, E3D, p3d etc.
 - Web authoring and design – Node.js, Flask, Adobe Photoshop

REFERENCES

- Prof. Gillian Wilson (UCR) gillianw@ucr.edu
Group leader and P.I. of the SpARCS and GCLASS collaboration
PD. Dr. Roberto Saglia (MPE) saglia@mpe.mpg.de
Ph.D. Supervisor
Prof. Michael Balogh (University of Waterloo) mbalogh@uwaterloo.ca
P.I. of the GOGREEN collaboration

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PUBLICATIONS

First Author (3)

- **Chan, J.C.C.**, Wilson, G., Rudnick, G., Muzzin, A., Balogh, M., Nantais, J., van der Burg, R.F.J., Cerulo, P., Biviano, A., Cooper, M.C., Demacro, R., Forrest, B., Lidman, C., Noble, A., Old, L., Pintos-Castro, I., Reeves, A.M.M., Webb, K.A., Yee, H.K.C., Abdullah, M.H., De Lucia, G., Marchesini, D., McGee, S.L., Stefanon, M., Zaritsky, D., “The Rest-frame H-band Luminosity Function of Red Sequence Galaxies in Clusters at $1.0 < z < 1.3$ ”, *ApJ*, 880, 119 (2019)
<https://ui.adsabs.harvard.edu/abs/2019ApJ...880..119C/abstract>
- **Chan, J.C.C.**, Beifiori, A., Saglia, R.P., Mendel, J.T., Stott, J.P., Bender, R., Galametz, A., Wilman, D.J., Cappellari, M., Davies, R.L., Houghton, R.C.W., Prichard, L.J., Lewis, I.J., Sharples, R., Wegner, M., “The KMOS Cluster Survey (KCS). II. The Effect of Environment on the Structural Properties of Massive Cluster Galaxies at Redshift $1.39 < z < 1.61$ ”, *ApJ*, 856, 8 (2018)
<https://ui.adsabs.harvard.edu/abs/2018ApJ...856....8C/abstract>
- **Chan, J.C.C.**, Beifiori, A., Mendel, J.T., Saglia, R.P., Bender, R., Fossati, M., Galametz, A., Wegner, M., Wilman, D.J., Cappellari, M., Davies, R.L., Houghton, R.C.W., Prichard, L.J., Lewis, I.J., Sharples, R., Stott, J.P., “Sizes, Colour gradients and Resolved Stellar Mass Distributions for the Massive Cluster Galaxies in XMMUJ2235-2557 at $z = 1.39$ ”, *MNRAS*, 458, 3181C (2016)
<https://ui.adsabs.harvard.edu/abs/2016MNRAS.458.3181C/abstract>

Contributing Author (25)

- Forrest, B., Marsan, Z.C., Annunziatella, M., Wilson, G., Muzzin, A., Marchesini, D., Cooper, M.C., **Chan, J.C.C.**, McConachie, I., Gomez, P., Kado-Fong, E., La Barbera, F., Lange-Vagle, D., Nantais, J., Nonino, M., Saracco, P., Stefanon, M., van der Burg, R.F.J., “The Massive Ancient Galaxies at $z > 3$ NEar-infrared (MAGAZ3NE) Survey: Confirmation of Extremely Rapid Star Formation and Quenching Timescales for Massive Galaxies in the Early Universe”, *ApJL*, 890L, 1 (2020)
<https://ui.adsabs.harvard.edu/abs/2020ApJ...903...47F/abstract>

- Wilman, D.J., Fossati, M., Mendel, J.T., Saglia, R., Wisnioski, E., Wuyts, S., Förster Schreiber, N., Beifiori, A., Bender, R., Belli, S., Übler, H., Lang, P., **Chan, J.C.C.**, Davies, R.L., Nelson, E.J., Genzel, R., Tacconi, L.J., Galametz, A., Davies, R.I., Lutz, D., Price, S., Burkert, A., Tadaki, K., Herrera-Camus, R., Brammer, G., Momcheva, I., van Dokkum, P., “The regulation of galaxy growth along the size-mass relation by star-formation, as traced by H α in KMOS^{3D} galaxies at $0.7 < z < 2.7$ ”, ApJ, 892, 1 (2020)
<https://ui.adsabs.harvard.edu/abs/2020ApJ...892....1W/abstract>
- Forrest, B., Annunziatella, M., Wilson, G., Marchesini, D., Muzzin, A., Cooper, M.C., Marsan, Z.C., McConachie, I., **Chan, J.C.C.**, Gomez, P., Kado-Fong, E., La Barbera, F., Labbé, I., Lange-Vagle, D., Nantais, J., Nonino, M., Peña, T., Saracco, P., Stefanon, M., van der Burg, R.F.J., “An Extremely Massive Quiescent Galaxy at $z=3.493$: Evidence of Insufficiently Rapid Quenching Mechanisms in Theoretical Models”, ApJL, 890L, 1 (2020)
<https://ui.adsabs.harvard.edu/abs/2020ApJ...890L...1F/abstract>
- Matharu, J., Muzzin, A., Brammer, G.B., van der Burg, R.F.J., Auger, M.W., Hewett, P.C., **Chan, J.C.C.**, Demarco, R., van Dokkum, P., Marchesini, D., Nelson, E.J., Noble, A.G., Wilson, G., “HST/WFC3 grism observations of $z\sim 1$ clusters: evidence for evolution in the mass-size relation of quiescent galaxies from poststarburst galaxies”, MNRAS, 493, 4 (2020)
<https://ui.adsabs.harvard.edu/abs/2020MNRAS.493.6011M/abstract>
- Wisnioski, E., Förster Schreiber, N.M., Fossati, M., Mendel, J.T., Wilman, D., Genzel, R., Bender, R., Wuyts, S., Davies, R.L., Übler, H., Bandara, K., Beifiori, A., Belli, S., Brammer, G., **Chan, J.C.C.**, Davies, R.I., Fabricius, M., Galametz, A., Lang, P., Lutz, D., Nelson, E.J., Momcheva, I., Price, S., Rosario, D., Saglia, R., Seitz, S., Shimizu, T., Tacconi, L.J., Tadaki, K., van Dokkum, P.G., Wuyts, E., “The KMOS^{3D} Survey: Data Release and Final Survey Paper”, ApJ, 886, 124 (2019)
<https://ui.adsabs.harvard.edu/abs/2019ApJ...886..124W/abstract>
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- Matharu, J., Muzzin, A., Brammer, G.B., van der Burg, R.F.J., Auger, M.W., Hewett, P.C., van der Wel, A., van Dokkum, P., Balogh, M., **Chan, J.C.C.**, Demarco, R., Marchesini, D., Nelson, E.J., Noble, A., Wilson, G., Yee, H.K.C., “HST/WFC3 grism observations of $z\sim 1$ clusters: the cluster versus field stellar mass-size relation and evidence for size growth of quiescent galaxies from minor mergers”, MNRAS, 484, 595 (2019)
<https://ui.adsabs.harvard.edu/abs/2019MNRAS.484..595M/abstract>
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<https://ui.adsabs.harvard.edu/abs/2017MNRAS.470.4168B/abstract>
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<https://ui.adsabs.harvard.edu/abs/2017ApJ...846..120B/abstract>
 - Übler, H., Förster Schreiber, N.M., Genzel, R., Wisnioski, E., Wuyts, S., Lang, P., Naab, T., Burkert, A., van Dokkum, P.G., Tacconi, L. J., Wilman, D.J., Fossati, M., Mendel, J.T., Beifiori, A., Belli, S., Bender, R., Brammer, G.B., **Chan, J.C.C.**, Davies, R., Fabricius, M., Galametz, A., Lutz, D., Momcheva, I.G., Nelson, E.J., Saglia, R.P., Seitz, S., Tadaki, K., “The Evolution of the Tully-Fisher Relation between $z \sim 2.3$ and $z \sim 0.9$ with KMOS^{3D}”, *ApJ*, 842, 121 (2017)
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<https://ui.adsabs.harvard.edu/abs/2017Natur.543..397G/abstract>
- Fossati, M., Wilman, D.J., Mendel, J.T., Saglia, R.P., Galametz, A., Beifiori, A., Bender, R., **Chan, J.C.C.**, Fabricius, M., Bandara, K., Brammer, G.B., Davies, R., Förster Schreiber, N.M., Genzel, R., Hartley, W., Kulkarni, S.K., Lang, P., Momcheva, I.G., Nelson, E.J., Skelton, R., Tacconi, L.J., Tadaki, K., Übler, H., van Dokkum, P.G., Wisnioski, E., Whitaker, K.E., Wuyts, E., Wuyts, S., “Galaxy Environment in the 3D-HST Fields: Witnessing the Onset of Satellite Quenching at $z \sim 1-2$ ”, *ApJ*, 835, 153 (2017)
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