

# Jeffrey Chi Chung Chan

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Room 2213, Pierce Hall, University of California, Riverside  
900 University Avenue, Riverside, CA 92521, USA  
jchan@ucr.edu  
<http://jeffreycchan.com/>

## RESEARCH INTEREST

Galaxy Evolution  
Massive Galaxies  
Galaxy Clusters

## EMPLOYMENT

2017 - **University of California, Riverside – Postdoctoral Researcher**  
Present      Research Focus: The properties of galaxies in high-redshift galaxy clusters  
Active member of GOGREEN, SpARCS, and KMOS-cluster 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/WFC3, 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  $z > 3$  (Remote observing)

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, Subaru/HSC, and Spitzer/IRAC

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

Radio Interferometry: ATCA and VLA

## CONFERENCE PRESENTATIONS AND SEMINARS

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| 2018 Nov | <b>“The evolution of the cluster red sequence at <math>z \sim 1</math>”</b> (seminar)  | Astronomy seminar, UCR, Riverside   |
| 2017 Jul | <b>“The buildup and structural evolution of the cluster red sequence between redshift <math>z \sim 1-1.5</math>”</b> (contributed talk)                        | “Early stages of Galaxy Cluster Formation (GCF2017)” conference, ESO Garching, Germany  |
| 2016 Aug | <b>“KMOS-Cluster Survey - Size, Colour gradients and Resolved Stellar Mass Distribution of Cluster Galaxies at <math>z \sim 1.5</math>”</b> (contributed talk) | “Deconstructing Galaxies at Cosmic Noon: The Present and Future of Deep Spectroscopic Surveys at High Redshift” conference, Leiden, The Netherlands |
| 2015 Sep | <b>“KMOS-Cluster - The Fundamental Plane and Resolved Stellar Mass Distribution of Cluster Galaxies at <math>z \sim 1.5</math>”</b> (contributed talk)         | “In the footsteps of galaxies: tracing the evolution of environmental effects” conference, Soverato, Italy  |

2015 Jul	<b>“Color gradients in Early-type galaxies”</b> (seminar)	IMPRS student seminar, MPE, Garching, Germany
2015 Jul	<b>“KMOS-Cluster Program - The Fundamental Plane and Resolved Stellar Mass Distribution of Cluster Galaxies at z~1.5”</b> (poster presentation)	“A 3D View on Galaxy Evolution: from Statistics to Physics” conference, Max Planck Institute for Astronomy (MPIA), Heidelberg, Germany
2015 Jun	<b>“KMOS-Cluster - Size, Color gradients and Resolved Stellar Mass Distributions of the Massive Cluster Galaxies at z~1.39”</b> (contributed talk)	European Week of Astronomy and Space Science (EWASS 2015) conference, La Laguna, Tenerife, Spain
2015 Apr	<b>“KMOS-Cluster - Size and Resolved Stellar Mass Distribution of Cluster Galaxies at z ~1.4”</b> (talk)	OPINAS Group retreat, Ringberg, Tegernsee, Germany
2015 Mar	<b>“Size and Resolved Stellar Mass Distribution of Cluster Galaxies at z ~1.4”</b> (seminar)	OPINAS seminar, MPE, Garching, Germany
2014 Jun	<b>“Velocity Dispersion and Resolved Stellar Mass Distribution of Cluster Galaxies at 1&lt; z &lt;2 - Current Status and Preliminary Results from the KMOS-clusters Program”</b> (contributed talk)	“Future direction in Galaxy Cluster Surveys” conference, École normale supérieure (ENS), Paris, France
2014 Feb	<b>“Sizes and Stellar Mass Structure of KMOS-Cluster Galaxies”</b> (talk)	OPINAS Group retreat, Ringberg, Tegernsee, Germany
2013 Apr	<b>“Kinematic Constraints on Structuring of the Optical Emission-Line Nebula in NGC 1275”</b> (seminar)	OPINAS seminar, MPE, Garching, Germany
2012 Aug	<b>“Clues on how the optical nebula in NGC 1275 may be structured from its velocity field”</b> (contributed talk)	IAU XXVIII General Assembly, Beijing, China

## WORKSHOPS AND SUMMER SCHOOLS

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	The University of Hong Kong,

2011 Jun	and Astrophysical Maser Star Formation Summer School	Hong Kong 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 AND OUTREACH EXPERIENCE

2017	Volunteer for the 2017 total solar eclipse event (UCR)
2014	Demonstrator at Open day (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 Hong Kong Co. Ltd.)

## SKILLS

Language:	Fluent in English, Cantonese, Fair in Mandarin
Computer:	<ul style="list-style-type: none"> <li>• Programming and software development - IDL, Python, C++, JS, VB</li> <li>• Data analysis software - IRAF, Miriad, AIPS, ds9, QFitsView, E3D, p3d etc.</li> <li>• Web authoring and design – Node.js, Flask, Adobe Photoshop</li> </ul>

## REFERENCES

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

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Room 2213, Pierce Hall, University of California, Riverside

900 University Avenue, Riverside, CA 92521, USA

jchan@ucr.edu

<http://jeffreycchan.com/>

**ORCID ID:** 0000-0001-6251-3125

**ADS library:** <https://ui.adsabs.harvard.edu/public-libraries/T2FgtCPxTUyf9xLwwq5c4g>

## 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 (21)

- 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”, *arXiv e-prints*, (submitted to *ApJL*, 2019)  
<https://ui.adsabs.harvard.edu/abs/2019arXiv191010158F/abstract>

- Übler, H., Genzel, R., Wisnioski, E., Förster Schreiber, N.M., Shimizu, T.T., Price, S.H., Tacconi, L.J., Belli, S., Wilman, D.J., Fossati, M., Mendel, J.T., Davies, R.L., Beifiori, A., Bender, R., Brammer, G.B., Burkert, A., Chan, J.C.C., Davies, R.I., Fabricius, M., Galametz, A., Herrera-Camus, R., Lang, P., Lutz, D., Momcheva, I.G., Naab, T., Nelson, E.J., Saglia, R.P., Tadaki, K., van Dokkum, P.G., Wuyts, S., “The Evolution and Origin of Ionized Gas Velocity Dispersion from  $z \sim 2.6$  to  $z \sim 0.6$  with KMOS<sup>3D</sup>”, *ApJ*, 880, 48 (2019)  
<https://ui.adsabs.harvard.edu/abs/2019ApJ...880...48U/abstract>
- 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)  
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<https://ui.adsabs.harvard.edu/abs/2018ApJ...866..136F/abstract>
- Wisnioski, E., Mendel, J.T., Förster Schreiber, N.M., Genzel, R., Wilman, D., Wuyts, S., Belli, S., Beifiori, A., Bender, R., Brammer, G., **Chan, J.C.C.**, Davies, R.I., Davies, R.L., Fabricius, M., Fossati, M., Galametz, A., Lang, P., Lutz, D., Nelson, E.J., Momcheva, I., Rosario, D., Saglia, R., Tacconi, L. J., Tadaki, K., Übler, H., van Dokkum, P.G., “The KMOS<sup>3D</sup> Survey: Rotating Compact Star-forming Galaxies and the Decomposition of Integrated Line Widths”, *ApJ*, 855, 97 (2018)  
<https://ui.adsabs.harvard.edu/abs/2018ApJ...855...97W/abstract>
- Prichard, L.J., Davies, R.L., Beifiori, A., **Chan, J.C.C.**, Cappellari, M., Houghton, R.C.W., Mendel, J.T., Bender, R., Galametz, A., Saglia, R.P., Stott, J.P., Wilman, D.J., Lewis, I.J., Sharples, R., Wegner, M., “The KMOS Cluster Survey (KCS). III. Fundamental Plane of Cluster Galaxies at  $z \sim 1.80$  in JKCS 041”, *ApJ*, 850, 203 (2017)  
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- Balogh, M.L., Gilbank, D.G., Muzzin, A., Rudnick, G., Cooper, M.C., Lidman, C., Biviano, A., Demarco, R., McGee, S.L., Nantais, J., Noble, A., Old, L., Wilson, G., Yee, H.K.C., Bellhouse, C., Cerulo, P., **Chan, J.C.C.**, Pintos-Castro, I., Simpson, R., van der Burg, R.F.J., Zaritsky, D., Ziparo, F., Alonso, M.V., Bower, R.G., De Lucia, G., Finoguenov, A., Lambas, D.G., Muriel, H., Parker, L.C., Rettura, A., Valotto, C., Wetzel, A., “Gemini Observations of Galaxies in Rich Early Environments (GOGREEN) I: survey description”, *MNRAS*, 470, 4168 (2017)  
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Lewis, I.J., Sharples, R., Wegner, M., “The KMOS Cluster Survey (KCS). I. The Fundamental Plane and the Formation Ages of Cluster Galaxies at Redshift  $1.4 < z < 1.6$ ”, *ApJ*, 846, 120 (2017)

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- Genzel, R., Schreiber, N.M. Förster; Übler, H., Lang, P., Naab, T., Bender, R., Tacconi, L.J., Wisnioski, E., Wuyts, S., Alexander, T., Beifiori, A., Belli, S., Brammer, G., Burkert, A., Carollo, C.M., **Chan, J.C.C.**, Davies, R., Fossati, M., Galametz, A., Genel, S., Gerhard, O., Lutz, D., Mendel, J.T., Momcheva, I., Nelson, E.J., Renzini, A., Saglia, R., Sternberg, A., Tacchella, S., Tadaki, K., Wilman, D., “Strongly baryon-dominated disk galaxies at the peak of galaxy formation ten billion years ago”, *Nature*, 543, 397 (2017)

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<https://ui.adsabs.harvard.edu/abs/2016ApJ...827...74W/abstract>
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<https://ui.adsabs.harvard.edu/abs/2016ApJ...826..214B/abstract>
- Yu, A., Lim, J., Ohya, Y., **Chan, J.C.C.**, and Broadhurst, T., “The High-velocity System: Infall of a Giant Low-surface-brightness Galaxy toward the Center of the Perseus Cluster”, *ApJ*, 814, 101 (2015)  
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