Jeffrey Chi Chung Chan

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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

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~1.5 using sizes and colour gradients"

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"

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"

Research project: "Measuring the Proper motion of the debris of SN1987A"

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 Scholarship2008 Dean's Honours List

2007 HKU Foundation Entrance Scholarship

TEACHING AND OUTREACH EXPERIENCE

2017	Helper for the total solar eclipse outreach event at UCR
2014	Demonstrator at Open day at MPE
2010 - 2012	Tutor of PHYS2022 "Observational Astronomy" and PHYS1414 "General
	Physics I" (HKU)
2008 Aug	Organizer of the Physics Summer Workshop 2008 for High School students
2007 - 2008	Internal Vice Chairperson of Physics Society (HKU)
2007 - 2009	Tutor of junior high school students (Mathematics class, Kumon Hong Kong Co.
	Ltd.)

OBSERVATION EXPERIENCE

GMOS, Gemini Observatory North - Slit Spectroscopy of galaxies in high-z clusters

2017 Apr Run 2017A – 5 nights

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

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

CONFERENCE PRESENTATIONS AND SEMINARS

2018 Nov	"The evolution of the cluster red sequence	Astronomy seminar, UCR,
	at z~1" (seminar)	Riverside
2017 Jul	"The buildup and structural evolution of	"Early stages of Galaxy Cluster
	the cluster red sequence between redshift	Formation (GCF2017)"
	z~1-1.5" (contributed talk)	conference, ESO Garching,
		Germany
2016 Aug	"KMOS-Cluster Survey - Size, Colour	"Deconstructing Galaxies at
	gradients and Resolved Stellar Mass	Cosmic Noon: The Present and
	Distribution of Cluster Galaxies at z~1.5"	Future of Deep Spectroscopic
	(contributed talk)	Surveys at High Redshift"
		conference, Leiden, The
		Netherlands
2015 Sep	"KMOS-Cluster - The Fundamental Plane	"In the footsteps of galaxies:
	and Resolved Stellar Mass Distribution of	tracing the evolution of
	Cluster Galaxies at z~1.5" (contributed talk)	environmental effects"
		conference, Soverato, Italy
2015 Jul	"Color gradients in Early-type galaxies"	IMPRS student seminar, MPE,
	(seminar)	Garching, Germany
2015 Jul	"KMOS-Cluster Program - The	"A 3D View on Galaxy Evolution:
	Fundamental Plane and Resolved Stellar	from Statistics to Physics"
	Mass Distribution of Cluster Galaxies at	conference, Max Planck Institute
	z~1.5" (poster presentation)	for Astronomy (MPIA), Heidelberg,

Germany

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2015 Jun	"KMOS-Cluster - Size, Color gradients and	European Week of Astronomy
	Resolved Stellar Mass Distributions of the	and Space Science (EWASS
	Massive Cluster Galaxies at z~1.39"	2015) conference, La Laguna,
	(contributed talk)	Tenerife, Spain
2015 Apr	"KMOS-Cluster - Size and Resolved Stellar	r OPINAS Group retreat, Ringberg,
	Mass Distribution of Cluster Galaxies at z	Tegernsee, Germany
	~1.4" (talk)	
2015 Mar	"Size and Resolved Stellar Mass	OPINAS seminar, MPE, Garching,
	Distribution of Cluster Galaxies at z ~1.4"	Germany
	(seminar)	
2014 Jun	"Velocity Dispersion and Resolved Stellar	"Future direction in Galaxy
	Mass Distribution of Cluster Galaxies at 1<	: Cluster Surveys" conference,
	z <2 - Current Status and Preliminary	École normale supérieure (ENS),
	Results from the KMOS-clusters Program"	' Paris, France
	(contributed talk)	
2014 Feb	"Sizes and Stellar Mass Structure of	OPINAS Group retreat, Ringberg,
	KMOS-Cluster Galaxies" (talk)	Tegernsee, Germany
2013 Apr	"Kinematic Constraints on Structuring of	OPINAS seminar, MPE, Garching,
	the Optical Emission-Line Nebula in NGC	Germany
	1275" (seminar)	
2012 Aug	"Clues on how the optical nebula in NGC	IAU XXVIII General Assembly,
	1275 may be structured from its velocity	Beijing, China
	field" (contributed talk)	

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,
	and Astrophysical Maser	Hong Kong
2011 Jun	Star Formation Summer School	The Academia Sinica Institute of
		Astronomy and Astrophysics
		(ASIAA), Taiwan
2011 Jun	Star Formation through Spectroimaging	The Academia Sinica Institute of
	at High Angular Resolution	Astronomy and Astrophysics

SKILLS

Language: Fluent in English, Cantonese, Fair in Mandarin

Computer: • Programming and software development - IDL, Python, C++, VB, JS

• 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

Prof. Michael Balogh (U. of Waterloo)
P.I. of GOGREEN survey

mbalogh@uwaterloo.ca

Dr. Roberto Saglia (MPE) saglia@mpe.mpg.de

Ph.D. Supervisor